



Strategies and tools for Real Time Earthquake Risk Reduction

2nd Annual Meeting

ETH Zurich, October 23-25 2013

Meeting agenda

INTRODUCTION

The 2nd annual meeting will review the progress made in all project work-packages over the past 12 months and plan for the final year of the projects. It will also be an opportunity to network and discuss plans for future projects. Finally, it will be an chance to visit one of the End-users and discuss the End-user perspective.

WEDNESDAY, OCTOBER 23

10:00 – 10:30

Welcome Coffee and Gipfeli, Registration

10:30 – 10:45

Welcome to SED/ETHZ and at REAKT (S. Wiemer/P. Gasparini)

10:45 – 12:00

Invited papers

T. Jordan: New Simulation-Based Seismic Hazard Models from the CyberShake Project: Implications for OEF and EEW

R.A. Allen: Earthquake Early Warning for the US West Coast: Status and new opportunities

S. Wiemer: Quantifying the limits of our knowledge in EEW, OEF and Induced Seismicity

12:00 – 12:30

P. Gasparini: Overview of progresses of REAKT in the second year

12:30 – 13:30 Lunch

13:30 – 14:00

Invited Paper

D. Giardini: Current and future challenges for Real time Risk Assessment and Mitigation

14.00 – 15.30

Operational Earthquake Forecasting

W. Marzocchi: The development of the first operational short-term seismic hazard model in Italy: The Cassandra system

J. Zechar: New developments on the testing phase of the CSEP experiments: The example of the global forecasts

S. Steacy: Testing the Coulomb Failure Function forecasting models: the case of the Canterbury sequence

15:30 – 16:00 Coffee

16:00 – 17:30

Earthquake early warning

S.Colombelli, A.Zollo, G. Festa, M. Picozzi: Early warning for large earthquakes: observations and insights on the rupture initiation process.

Y.Zhang: How fast can large earthquakes be imaged for early warning?

R. Bossu: Progress in the use of social networks as a rapid response tool

Y. Behr: Next generation real time VS algorithm.

17:30 – 18.00 General Assembly

17:30 – 19.30 Wine, Cheese and Posters

THURSDAY, OCTOBER 24

08:30 – 09:00

Coffee and Gipfeli

09:00 – 10.30

Transient phenomena and implications for OEF

P. Bernard: introduction

D. Faeh, M. Aktar & H.Karabalut, G. Festa, A. Deschamps : Characterization of earthquake swarms on the four pilot sites: Valais , Marmara ,Irpinia , Corinth

P.Bernard : mechanical modeling of static/dynamic fault slip interaction

P.Bernard : applicability to forecasting ?

10:30 – 12.00

Time dependent vulnerability

K. Pytilakis & S. Karapetrou: Consideration of aging effects on the time-dependent seismic vulnerability assessment of RC buildings

I. Iervolino: Near-real-time seismic risk management of deteriorating structures

A.Penna : Development of state-dependent fragility functions for masonry buildings

J. Abad : Accounting for cumulative effects through the derivation of damage state-dependent fragility curves

12.00 – 13.00 Lunch

13:00

Departure to the Nuclear Power Plant ‘Gösgen’

14:00 – 15:00

End-user perspective: Swiss nuclear. Pegasos, EEW and forecasting (P. Renault, Y. Biro, S. Wiemer, J. Clinton, C. Cauzzi, Y. Behr; Gösgen’ conference Room)

15:00 – 18:00

Visit to the NPP

18:00

Apero at the NPP

18:30

Departure by Bus

19:00

Joint Dinner (along the way)

FRIDAY, OCTOBER 25

08:30 – 09:00

Coffee and Gipfeli

09:00 – 09.30

C. Cauzzi: Update on WP7 activities and interactions with end-users

9.30 - 11.00

Decision making

G. Woo, R. Russo: Quantitative protocols for decision making and possible applications to WP7

T. Leguenan: Development of a participatory decision-making approach for earthquake risk reduction

11.00 - 12.00

P. Gasparini, S. Wiemer, J. Zschau: Progresses expected in the 3rd year and perspectives for Horizon 2020

12:00 – 13:00 Lunch

Management committee meeting.

Meeting with advisory Board

13.00 – 15.00

WP 3/WP2 meeting– Chairman: **W. Marzocchi**, INGV

WP 7 – End user meeting– Chairman: **C.Auzzi**; ETHZ