



EWG Dams & Seisms - Agenda Monday 6 February 2017

Session 1: INTRODUCTION

President: Carlo RICCIARDI

- 09.00 Welcome speech, by the Council of the Ministry of Infrastructure and by ITCOLD
Ministry of Infrastructure & ITCOLD
- 09.20 Opening & objectives of the workshop
Jean-Jacques Fry

Session 2: ICOLD, WORKING GROUPS AND R&D ACTIVITIES

President: Carlo RICCIARDI

- 09.25 The progresses needed in seismic analyses from ICOLD point of view
Martin WIELAND
- 09.45 The benefits of Benchmark Workshops organized by the ICOLD Technical Committee
Guido MAZZA
- 09.45 Activities of the Working Group of the Italian Committee dedicated to “Effects induced by earthquakes on Italian dams”
Rosella CARUANA & Adriano DE SORTIS
- 10.05 The seismic case history of Acciano dam
Alberto MASERA
- 10.25 The needs of a Research and Development project on “Dams and Earthquakes” from the Working Group of the French Committee
Philippe KOLMAYER
- 10.45 Discussion

Session 3: OBSERVATION & INTERPRETATION OF SEISMIC DAM BEHAVIOUR

Presidents: Giovanni RUGGERI

- 11.00 Effects induced by the 2009 seismic events
Alberto FREZZA, Matteo SBARIGIA, Massimiliano CARCIONE
- 11.30 Effects induced by the 2016 seismic events
Dam Authority
- 12.00 Discussion
- 12.15 Lunch



EWG Dams & Earthquakes - Agenda 6 Feb. 2017 afternoon

Session 3: OBSERVATION & INTERPRETATION OF SEISMIC DAM BEHAVIOUR

President: Giovanni RUGGERI

- 14.00 Seismic Assessment carried out for the three dams of Campotosto lake, following the 2009 event
Marina EUSEBIO
- 14.30 Lessons learned and open issues relevant to the seismic safety assessment of several Italian concrete dams. Presentation of an alternative simulation approach and a simplified risk indexes tool.
Massimo MEGHELLA, Georgia FAGGIANI, L. FURGANI, P. MASARATI
- 15.00 Damage of Sefid Rud Buttress Dam Project in Iran Caused by the Magnitude 7.7 Manjil Earthquake of June 21, 1990
Martin WIELAND
- 15.30 Discussion
- 15.50 Break
- 16.15 Towards Displacement-Based Seismic Assessment of Concrete Dams
Anton ANDONOV
- 16.40 A researcher's perspective on modeling unbounded domains for earthquake analyses
Arnkjell LOEKKE
- 17.05 Back analyses of Monticello arch dam: interest of earthquake records on dams to improve the reliability of safety assessments on concrete dams
Emmanuel ROBBE
- 17.30 Discussion
- 17.50 End of the sessions of the day



Agenda EWG Dams & Earthquakes - Tuesday 7 Feb. Morning

Session 4 : MODELING OF SEISMIC EMBANKMENT DAM BEHAVIOUR

President: Guido MAZZA

- 08.00 Non linear analyses of dams under strong earthquake
Tad TANAKA
- 08.20 Aratozawa dam: influence of non saturation, comparison with observation
Marc KHAM, Philippe KOLMAYER
- 08.40 Numerical modeling of liquefaction-induced failure of embankments
Stefania GOBBI, Fernando LOPEZ-CABALLERO, D.FORCELLINI, Arezou Modaressi
- 09.00 Simplified method for calculating the induced settlements and the ratio of liquefaction in a soil profile under seismic loading
Ziad KTEICH
- 09.20 Evaluation of a simplified method for seismic performance assessment of homogeneous earth dams on the case study of Vars Dam
Guillaume VEYLON
- 09.40 Qualification of a simplified method assessing the seismic behavior of dams founded on rocks
Antoine des GARETS, Jean-Jacques FRY
- 10.00 A simplified method for assessing the seismic behavior of embankment dam and dykes
Jean-Jacques FRY
- 10.20 Discussion
- 10.40 Break

Session 5 : SEISMIC HAZARD ASSESSMENT & SEISMIC GATES BEHAVIOR

President: Jean-Jacques FRY

- 11.10 Outcomes of SIGMA and presentation of SIGMA2 projects on seismic hazard assessment
Pierre LABBE
- 11.30 Future improvement of the PSHA assessment for the French territory
Nicolas HUMBERT
- 11.50 French studies on mechanical strength of spillway gates and bottom outlet valves under earthquake loading. State of knowledge and needs.
GRAVELEINE David, BOUQUIER Pierre
- 12.10 Discussion
- 12.30 Closure of the symposium