



Mediterranean Symposium on Landslides – MSL2021
June 7th-9th, 2021
Virtual

SCIENTIFIC PROGRAMME

JUNE, 7, 2021

09:00 Opening session

L. Picarelli, G. Crosta, D. Giordan, N. Moraci, G. Urciuoli

SESSION 1 - GEOLOGICAL SETTING, TRIGGERS AND MECHANISMS

Chairman: G. Lollino

09:35 Special Lecture

C. Doglioni - *Mediterranean geodynamics as a global laboratory of the polarized plate tectonics*

10:20 Break

10:30 Invited Lecture

K. Ogata - *Mélanges in flysch-type formations: geological constraints for a better understanding of “chaotic” complexes*

1.1 Geological setting

Chairman: G. Lollino

11:05 G. Urciuoli - *The “Flysch Rosso” formation, Southern Apennines: lithological and structural features and challenges in the geotechnical modelling and characterization*

11:20 A. Strom - *Role of flysch in large-scale rock avalanches formation in the eastern sector of the Alpine-Mediterranean belt*

11:35 I. Peshevski - *Landslide characterization in the Polog region (R.N. Macedonia) by innovative and conventional methods*

11:50 M. Ranaldo - *Landslide susceptibility assessment in the southern sector of the Tammara River basin (Italy)*

12:05 Discussion - Convener: D. Calcaterra



Mediterranean Symposium on Landslides – MSL2021
June 7th-9th, 2021
Virtual

12:40 Invited Lecture

N. M. Pinyol - *A slow and complex landslide under seismic actions*

13:10 Break

1.2 Triggers

Chairman: L. Cascini

14:30 A. di Lernia - *Assessing the influence of hydraulic boundary conditions on clayey slope stability: the Fontana Monte case study*

14:45 P. Tommasi - *Can we correctly model the pore pressure regime in mudstones and in flysch deposits?*

15:00 J. De Rosa - *Processes and mechanisms governing the transition of slides in tectonized clay shales into rapid earthflows*

15:15 Discussion - Convener: V. Marinos

16:00 Break

1.3 Mechanisms

Chairman: L. Cascini

16:10 C. Loupasakis - *The Limnes Landslide in Pissouri, Cyprus - A massive failure affecting a residential area founded on Neogene marls*

16:25 D. Shubina - *The stability assessment of the “Kabardinka” landslide in carbonate-terrigenous flysch (western Caucasus, Russia)*

16:40 P. Zimmaro - *Site-laboratory investigation strategies to characterize a complex slope instability phenomenon in Southern Italy*

16:55 L. Comegna - *The friction angle mobilized by shallow earthflows in tectonized clay shales*

17:10 Discussion - Convener: B. Abolmasov

17:40 Closure



Mediterranean Symposium on Landslides – MSL2021
June 7th-9th, 2021
Virtual

JUNE, 8, 2021

Chairman: F. Guzzetti

09:00 Special Lecture

E. Alonso - *Landslides and hydraulic structures*

SESSION 2 - INVESTIGATIONS, MONITORING AND ANALYSIS

Chairman: F. Guzzetti

09:50 Invited Lecture

M. Berti - *The complex dynamics of active earthflows*

10:20 Break

10:30 Invited Lecture

C. Di Maio - *Pore water pressures and hydraulic conductivity in the slip zone of a clayey earthflow: experimentation and modelling*

2.1 Investigations

Chairman: Z. Arbanas

11:05 L. Milan - *Challenges in the characterisation of block-in-matrix geomaterials*

11:20 F. Ghalamzan - *Swelling and swelling pressure in a clayey landslide: experimental data and model simulations*

11:35 S. Morelli - *Geophysical methods applied in the study of stiff clays and flysch formations: a review*

11:50 S. Khalil - *Dahr El Baidar slope stability - Experimental characterization and analysis*

12:05 D. Salciarini - *Physical and numerical modelling of the response of slopes under different rainfalls, inclinations and vegetation conditions*



Mediterranean Symposium on Landslides – MSL2021
June 7th-9th, 2021
Virtual

12:25 Invited Lecture

D. Jongmans - *Gravitational movements in the stiff clays of the Sinard plateau (western Alps): monitoring, kinematics and rheology*

12:55 Discussion - Convener: Z. Arbanas

13:25 Break

2.2 Monitoring

Chairman: M. Jamei

14:30 P. Confuorto - *Sentinel-1 based landslide mapping and monitoring experiences: state-of-the-art and future perspectives*

14:45 R. Vassallo - *In situ and satellite long-term monitoring of slow clayey landslides and of the structures built on them*

15:00 L. Guerriero - *Accelerating creep in deep-seated landslides moving along clay layers*

15:15 E. Damiano - *An integrated EWS for deep-seated landslides based on a new smart hybrid transducer*

15:30 Discussion – Convener: N. Casagli

16:00 Break



Mediterranean Symposium on Landslides – MSL2021
June 7th-9th, 2021
Virtual

2.3 Analysis

Chairman: M. Jamei

- 16:10 F. Hamrouni - *A cohesive hydromechanical modeling of crack's growth in a slope*
- 16:25 J. Peranić - *The influence of temporal resolution of rainfall data on the results of the physically based numerical model of landslide reactivation*
- 16:40 D. Salciarini - *Static and seismic numerical analysis of an active landslide located in a vulnerable area*
- 16:55 C. Cesali - *Mechanical behaviour of debris flows triggered from slopes in clays formations*
- 17:10 L. Pugliese - *Analysis of an excavation-induced landslide in stiff clay using the material point method*
- 17:25 Discussion – Convener: N. Huvaj
- 17:55 Closure



Mediterranean Symposium on Landslides – MSL2021
June 7th-9th, 2021
Virtual

JUNE, 9, 2021

SESSION 3 - REMEDIAL MEASURES, LANDSLIDE-STRUCTURE/INFRASTRUCTURE INTERACTION

Chairman: E. Leroi

09:00 Invited Lecture

M.U. Ergun - *Landslide Stabilization by Piles : A Subject Not Yet Stabilized*

3.1 Landslide-structure/infrastructure interaction and remedial measures

Chairman: E. Leroi

09:35 I. Kaliukh - *Reconstruction in the conditions of the restraint urban development and slope deformations*

09:50 I. Kaliukh - *The retaining wall collapse prevention during the multifunctional complex construction on the slope of Staronavodnytska ravine in Kyiv*

10:05 V. Jovičić - *Construction of Tunnel Portal Structures within the Active Landslide Bodies*

10:20 L. Picarelli - *Experience about landslide-tunnel interaction in tectonized clay shales*

10:35 V. Tagarelli - *A novel coupled hydro-mechanical modelling to design medium depth drainage trench systems to mitigate deep landsliding*

10:50 V. Tagarelli - *Preliminary field data of selected deep-rooted vegetation effects on the slope-vegetation-atmosphere interaction: results from an in-situ test*

11:05 Break

11:15 Discussion – Convener: F. Cotecchia

11:50 Invited Lecture

G. Scarpelli - *Mitigating the landslide/infrastructure interaction by controlling selective critical parameters*



Mediterranean Symposium on Landslides – MSL2021
June 7th-9th, 2021
Virtual

12:25 Best Paper Award

12:35 Break

14:15 Special Lecture

*C. Margottini - Weak rocks in the Mediterranean region: structures and threats of cultural
rupestrian heritages*

3.2 *Building in unstable land*

Chairman: Scavia C.

15:05 B. Janevski - *Novel charts for risk assessment of cut slope stability in highly weathered and fractured schists*

15:20 A. Miano - *Remote sensing data to support the structural monitoring of RC buildings affected by ground instability phenomena*

15:35 R. De Stefano - *Integrated analysis system for the design of risk mitigation works*

15:50 Discussion - Convener: F. Cotecchia

16:25 Conclusions and Closure

G. Crosta G., L. Picarelli