

STC 2024

SCIENTIFIC PROGRAMME:

Tuesday, 10 September

9:00	9:15	Organizers	Opening of the conference
9:15	9:30	Hartvich F. (<i>Director of IRSM AS CR</i>)	Welcome words
9:30	10:00	Micu, M.	Key-note talk 1: Deep-seated coseismic landslides in the Carpathians, Europe and the world
10:00	10:20	Pisano, L.	Inferring the seismic origin of large deep-seated landslides from the southern Apennines, Italy
10:20	10:40	Štěpančíková, P.	The role of mass wasting in interpretation of tectonic movements in geological records
10:40	11:00	Stemberk, J.	Deep Seated Gravitational Slope Deformations dynamics affected by switching tectonic strain
11:00	11:20	Coffee Break	
11:20	11:50	Baroň, I.	Deep-seated highly mobile prehistoric landslides in the Outer Western Carpathians and their possible paleoseismic implications
11:50	12:10	Siman-Tov, S.	Paleo to modern landslides along the active normal fault system of the Zurim Escarpment, northern Israel
12:10	12:30	Scarascia-Mugnozza, G.	Relationships between karst processes and slope-scale deformations: insights from 20-years research in the Apennines (Italy)
12:30	12:50	Chen, R.-F.	Innovative Remote Sensing Techniques for Monitoring and Preventing Slope Failures on Provincial Highway 24 in Taiwan
13:00	14:00	Lunch	
14:00	14:30	Wasowski, J.	Key-note talk 2: Multi-temporal InSAR offers great opportunities to study long-term dynamics of large deep-seated landslides and slope deformations
14:30	14:50	Derron, M.-H.	INSAR simulation of slope processes applied to analogue models and real cases
14:50	15:10	Jaboyedoff M.	Integrating Monitoring, Remote Sensing, and Structural Analysis to Predict Volume of Instabilities delimited by open fractures: Case study of Cima del Simano
15:10	15:30	Jelének, J. et al.	Decadal activity of a large DSGSD with potential to transform into a catastrophic failure at Mt. Traunstein in E Alps: insights from MT- InSAR and dendrogeomorphological surveys
15:30	15:50	Coffee Break	



15:50	16:20	Rau, R.-J.	Key-note talk 3: Kinematics of Deep-Seated Landslides: Microtremor Signals for the Geometry and Motion Stability
16:20	16:40	Lin, C.-H.	Bridging long-term evolution and present-day activity of DSGSD through mechanical modelling: a case study in Chingjing region, Taiwan
16:40	17:00	Sikora, R.	Influence of lithology and flysch rock structure on kinematics and landslide geometry, and the problem of initiating factors of mass movements - examples of slope tectonic processes from the Polish part of the Outer Carpathians and Sudetes
17:00	17:20	Hartvich, F.	The role of tectonic faults in the formation of a sandstone mesa: Ostaš and Hejda case study
17:30	18:30	<i>Poster session I</i>	
19:00		<i>Dinner</i>	Ice-breaker party (Barbeque)

Wednesday, 11 September

9:30	10:00	Tábořík P.	Key-note talk 4: Geophysical imaging of deep-seated slope failures: towards advantages, limitations and challenges
10:00	10:20	Goto, S.	Non-destructive investigation of geological structures for tunnel and slope by using compact cosmic ray muon detectors
10:20	10:40	Dušek, V.	Possibilities of Utilizing AMS in Landslide Accumulations
10:40	11:00	Ching, K.-E.	Mud Tectonics-Enhanced Landslides in Southwestern Taiwan
11:00	11:20	<i>Coffee Break</i>	
11:20	11:50	Chigira, M.	Key-note talk 5: Looking into large gravitational slope deformations through the windows of landslide scars in the South Alps, Japan
11:50	12:10	Čejka, J.	Advances and challenges of a high-resolution 3D contactless fracture monitoring at unstable rock slopes: Aiguilles Rouges, Chamonix, France
12:10	12:30	Jarman, D.	Alpine "megafans", outsize fans, and anomalously large fan-forms - a first comprehensive inventory for the European Alps, with sample areas in comparator ranges globally: incremental or catastrophic?
12:30	12:50	Booth, A. M.	Inferring preconditioning and triggering factors of postglacial bedrock landslides with high resolution topographic data: North Cascades, Washington, United States, and Eyjafjörður, north-central Iceland

14:00	14:30	Dong, J.-J.	Key-note talk 6: Earthquake-triggered deep-seated landslides and rate dependent strength along sliding surfaces
14:30	14:50	Esposito, C.	A new inventory of slope-scale gravitational deformations in the central Apennines (Italy): general overview and preliminary characterization of morphometric and geo-structural signatures
14:50	15:10	Thiery, Y.	Rock Slope Failures in Pyrenean Mountains: identification, description, spatialization and questions
15:10	15:30	Šutjak, M.	Large-scale gravitational slope deformations attributed to progressive development of an accretionary wedge margin (Mikulov-Falkenstein Fault, Outer Western Carpathians).
15:30	15:50	<i>Coffee Break</i>	
15:50	16:10	Poschinger, A. v.	Key-note talk 7: A hot question about the Flims rockslide
16:10	16:30	Xu, Y.	High-rate dynamics and controls of steadily slow-moving landslides
16:30	16:50	Agliardi, F.	Bridging the long-term and present-day activity of slow rock slope deformations by dating and remote sensing
16:50	17:10	Nguyễn, T.-T.	Studying the Possible Mechanisms of Under-dip toppling in the Outer Western Carpathian Flysch Belt
17:10	17:30	Malet J.-P.	The eo4alps landslide and gravitational slope movement inventory derived from an automated classification of SqueeSAR and Snapping InSAR datasets : application to the French Alps
17:30	18:30	<i>Poster session II</i>	
19:00		<i>Dinner</i>	

Posters:

Au, S.-Y. et al.:	Assessment of Deep-Seated Landslide Activity in Central Taiwan Using InSAR and High-Resolution UAV-LiDAR.
Buczek, K. et al.:	Structural control and hydrogeological conditions of the complex landslide formed in flysch rocks - case study of the Zoniowskie landslide (Polish Outer Carpathians)
Chen, T.-T. et al.:	Assessing Potential Geological Hazards with High-Precision UAV-LiDAR Data: A case study of 2024 Hualien earthquake
Fojt, Z. et al.:	Landslides near Semanín fault between Ústí nad Orlicí and Semanín
Furuki, H.:	A method for training topography interpretation techniques and predicting landslide hazard areas using a deep neural network.
Huang, Y.-T. et al.:	Using satellite imagery and LiDAR for multi-temporal landslide inventory and calculation of sediment transport within a watershed.
Malet, J.-P. et al.:	Inventory and morphostructures of Deep-Seated Gravitational Slope Deformation in the Queyras Massif – South East Alps.
Matsushi, Y. et al.:	Landslides and deformations after deglaciation: structural regulations on the types, sizes, and timings
Mitura, A. et al.:	The influence of landslides in modifying drainage divides: a case study from the Polish Outer Carpathians
Ohta, T. et al.:	Caprock structure to control landslides in volcanic rock fields
Sasaki, N. et al.:	Characteristics of landslides induced by the 2024 Noto Peninsula Earthquake focusing on the relationship with previous landslides
Tseng C-H., et al.:	Landslide movement pattern revealed by temporal and spatial monitoring: A compound landslide case in northern Taiwan