May 22nd, Monday morning

8:00	**Registration**
9:00	**Opening Session**
9:15	Antonio Abellán and Michel Jaboyedoff Advances in rock slope characterization and monitoring using 3D/4D datasets (LiDAR, drones, Structure-from-Motion photogrammetry)
	Session 1
9:45	A. Guerin, L. Ravanel, B. Matasci, M. Jaboyedoff, M.-H. Derron, P. Deline 11 years of ground-based lidar monitoring in the West Face of the Drus (Mont-Blanc Massif, France) after the little rock avalanche of june 2005
10:00	V. De Biagi, M. Barbero, M.L. Napoli, D. Peila Estimation of rockfall block volume frequency law for risk analysis: an example
10:15	D. Toe, F. Bourrier, L. Dorren, M. Conedera, F. Berger Enhancing the integration of the protective role of forest in rockfall simulations
10:30	**Coffee break**
	Session 2
11:00	M. Fleris, A. Preh, B. Kolenprat Study of rockfalls in a quarry environment physical and numerical experiments
11:15	C. Noël, M. Jaboyedoff, C. Cloutier, M. Mayers, J. Locat The effect of slope roughness on 3D rockfall simulation results
11:30	Y. Nishikawa, H. Masuya, Y. Moriguchi Simulation of rockfall trajectory on mountain slope considering roughness of slope surface
11:45	J. Corominas, N. Lantada, J.A. Gili, R. Ruiz-Carulla, G. Matas, O. Mavrouli, M.A. Núñez-Andrés, J. Moya, F. Buill, A. Abellán, C. Puig, A. Prades, J. Martínez-Bofill, Ll. Saló The Rockrisk project: rockfall risk quantification and prevention
12:00	J. Moya, R. Copons Monte Carlo simulation of the volume and number of rockfall fragments using talus deposits
12:15	R. Ruiz-Carulla, J. Corominas Application of a rockfall fractal fragmentation model to three case studies
12:30	G. Matas, N. Lantada, J. Corominas, J.A. Gili, R. Ruiz-Carulla, A. Prades Rockfall fragmentation analysis: Vilanova de Banat case study
12:45	L. Dorren, F. Berger, F. Bourrier, C. Moos, T. Planzer, D. Toe Comparison of Monte-Carlo model simulations and recent deposited blocks to determine realistic rockfall runout zones
13:00	**Lunch break**

May 22nd, Monday afternoon

	Session 3
14:30	A. Caviezel, M. Christen, Y. Bühler, P. Bartelt Calibration methods for numerical rockfall models based on experimental data
14:45	W. Gerber, A. Caviezel Diversity of the results from drop weight tests
15:00	H. Al-Budairi, Z. Gao, A. Steel, T. Davies, S. Wheeler Condition monitoring system for rockfall catch fences
15:15	C. Abancó, C. Raïmat, J. Pérez-Arcas Wireless monitoring for cliff stabilization at La Clua (Pre-Pyrenees, Spain)
15:30	L. Meier, M. Jacquemart, S. Wahlen, B. Blattmann Real-time rockfall detection with Doppler radars
15:45	D. Toe, A. Mentani, F. Bourrier, L. Govoni, G. Gottardi, S. Lambert A probabilistic approach to integrate the effect of protection systems into rockfall hazard assessment
16:00	C. Moos, M. Fehlmann, D. Trappmann, M. Stoffel, L. Dorren A method for integrating the effects of forests on rockfalls into quantitative risk analysis - A case study in Switzerland
16:15	C. Lefeuvre, F. Noël, M.-H. Derron, M. Jaboyedoff, A. Pedrazzini Multi-technique approach to assess rockfall propagation: a case study from Les Forges, Jura, Switzerland
16:30	**Coffee break**
	Session 4
17:00	M. Moelk, B. Rieder The Austrian approach for rock-fall hazard zoning: experiences, problems and possible solutions for the development of a standardized procedure
17:15	S. Melzner Challenges in rock fall hazard zoning in Austria
17:30	C. Castiglia, T. Frenez Rockfall trajectory analysis for quarry planning and operation
17:45	D. Hantz, J-P. Rossetti, D. Valette, F. Bourrier Quantitative rockfall hazard assessment at the Mont Saint-Eynard (French Alps)
18:00	R. Sarro, R.M. Mateos, G. Herrera, I. García-Moreno, P. Reichenbach, I.P. Carralero, J. Naranjo, M. Béjar-Pizarro, O. Monserrat, L. Solari A methodology for assessing rockfall hazard within the ambit of civil protection: the SAFETY project
18:15	**End of session**
21:00	**Gala dinner**

May 23rd, Tuesday morning	
8:00	**Registration**
	Invited lectures
9:00	John Duffy A brief history of rockfall barrier testing
9:30	Axel Volkwein and Werner Gerber Measuring rockfall dynamics: challenges and opportunities
	Session 1
10:00	S. Lambert, B. Kister, B. Loup Evaluating existing rockfall protection embankments based on the current state of knowledge
10:15	D. WYllie, T. Shevlin, J. Glover, C. Wendeler Development of design method for rock fall attenuators
10:30	H. Al-Budairi, Z. Gao, A. Steel, S. Wheeler, T. Davies Improving the design of low energy lightweight rockfall catch fences
10:45	J. Arnaud, M. Huteau, P. Robit, N. Villard Unusual prefabricated rockfall gallery using wire mesh and geosynthetics
11:00	**Coffee break**
	Session 2
11:30	A. Pol, F. Gabrieli, K. Thoeni, N. Mazzon Discrete element modelling of punch tests with a double-twist hexagonal wire mesh
11:45	N. Kishi, M. Komuro, Y. Kurihashi, H. Mikami Upgrading impact resistant capacity applying FRP near surface mounting method
12:00	B. Kister, S. Lambert, B. Loup Impact tests on small scale embankments with rockery – lessons learned
12:15	F. Yamasawa, H. Konno, H. Nishi, N. Kishi, M. Komuro, Y. Kurihashi An examination on the influence of certain parameters on three-dimensional dynamic frame analysis for a rockfall protection gallery
12:30	J. Irazábal, F. Salazar, M. A. Celigueta, S. Latorre, E. Oñate Design and validation of rockfall protection systems by numerical modeling with discrete elements
12:45	S. Tahmasbi, A. Giacomini, O. Buzzi, C. Wendeler Numerical modeling of chain-link mesh
13:00	**Lunch break**

May 23rd, Tuesday afernoon	
	Session 3
14:30	J. B. Coulibaly, M-A Chanut, C. Galandrin, I. Olmedo, S. Lambert, F. Nicot Generic modeling of flexible rockfall barriers: from components characterization to full-scale numerical simulations
14:45	Y. Kurihashi, M. Komuro, N. Kishi, K. Schellenberg, T. Kawarai Predictions and conclusions of FE-simulations for Fullscale impact test on protection gallery
15:00	A. Preh, M. Illeditsch, M. Schmidt, P. Pamminger Impact of rock falls and rock slides on protective barriers: Comparative calculations using the Distinct Element Method (DEM)
15:15	I. Olmedo, P. Robit, D. Bertrand, C. Galandrin, J. Coulibaly, M-A. Chanut Extended experimental studies on rockfall flexible fences
15:30	M. Komuro, H. Nishi, H. Konno Numerical simulation on impact resistant behavior of full-scale pocket-type rockfall protection nets
15:45	A. Mentani, L. Govoni, A. Giacomini, O. Buzzi, G. Gottardi Calibration of an equivalent shell model for a chain-link mesh
16:00	R. Poisel, N. Hoedlmoser, B. Grasemann The cost-effectiveness of measures mitigating the risk caused by the former quarry of Spitz (Austria)
16:15	G. Kohlmaier CE marking of falling rock protection kits based on the Construction Products Regulation (EU) No 305/2011
16:30	**Coffee break**
	Session 4
17:00	A. Luciani, D. Peila Maintenance of rockfall net fences
17:15	A. Schober, R. Delleske, I. Hartmeyer, M. Keuschnig Using unmanned aerial systems (UAS) for the monitoring of protective constructions in steep, inaccessible terrain, Pass Lueg, Austria
17:30	J.M. Rius, R. Aguiló Surveillance of rockfall protection systems on the roads of Serra de Tramuntana range in Mallorca
17:45	W. Ashwood, P. Schlotfeldt Integrating design approaches to mitigate rockfall from a mine highwall
18:00	**Clossure**

May 24th, Wednesday morning: field trip	
8:30 - 18:30	Rockfall risk management in the Montserrat massif