Schedule

Sunday, April 6th

	Ballroom I	Ballroom II
8:00	**Module 1A** *Python Scripting for Tunnel Modelling with RS2* Instructed by Jiwoo Ahn	**Module 1B** *Analysis of Toppling Mechanisms using RocSlope2, RS2, and RS3* Instructed by Alison McQuillan
8:15		
8:30		
8:45		
9:00		
9:15		
9:30		
9:45		
10:00	**Morning Break**	
10:15		
10:30	**Module 2A** *Identifying Key Blocks and Support Requirements for Rock Slopes and Tunnels using ShapeMetriX, RocSlope3 and RocTunnel3* Instructed by Alison McQuillan	**Module 2B** *Application of Piezometer Data in Transient Groundwater Analysis in RS2 and RS3* Instructed by Reginald Hammah
10:45		
11:00		
11:15		
11:30		
11:45		
12:00		
12:15		
12:30	**Lunch Break**	
12:45		
1:00		
1:15		
1:30	**Module 3A** *Tailings Dam and Embankment Stability with Limit Equilibrium and Numerical Methods* Instructed by Reginald Hammah	**Module 3B** *Integrated Pile-Settlement Analysis: RSPile and Settle3 for Cutting-Edge Foundation Engineering* Instructed by Steve Chai
1:45		
2:00		
2:15		
2:30		
2:45		
3:00		
3:15		
3:30		
3:45	**Registration**	
4:00		
4:15		
4:30		
4:45	**Doors Open for Award Ceremony**	
5:00	**Lifetime Achievement Award Recipient** Dr. Harry Poulos	
5:15		
5:30		
5:45		

Monday, April 7th

	Ballroom I	Ballroom II
8:00	**Registration**	
8:15		
8:30		
8:45	**Opening Ceremony**	
9:00	**Keynote Speaker** Dr. Vassilios Marinos	
9:15		
9:30		
9:45	**Poster Presentations & Coffee Break**	
10:00		
10:15		
10:30	**Session 1:** Mining Slope Stability	**Session 2:** Underground Excavations
10:45		
11:00		
11:15	**Morning Break**	
11:30	**Session 3:** Student Paper Session	**Session 4:** Uncertainty & Risk Evaluation
11:45		
12:00		
12:15		
12:30	**Lunch Break**	
12:45		
1:00		
1:15		
1:30	**Partner Presentation:** Geobrugg	
1:45	**Keynote Speaker** Dr. Riadh Al-Mahaidi	
2:00		
2:15		
2:30	**Afternoon Coffee**	
2:45	**Partner Presentation:** Dassault Systems	
3:00	**Special Session in Collaboration with ISRM on Risk & Reliability**	
3:15		
3:30		
3:45		
4:00		
4:15	**Poster Presentations & Break**	
4:30		
4:45	**Session 5:** Tunnelling	**Session 6:** Slope Stability
5:00		
5:15		
5:30		
5:45		
6:00	**Cocktail Hour**	
6:15		
6:30		
6:45		

Tuesday, April 8th

	Ballroom I	Ballroom II
8:00	**Registration**	
8:15		
8:30		
8:45	**Partner Presentation:** Pangea Geosystems	
9:00	**Keynote Speaker** Dr. Youssef Hashash	
9:15		
9:30		
9:45	**Poster Presentations & Break**	
10:00		
10:15		
10:30	**Session 7:** Tailings	**Session 8:** Piling & Settlement
10:45		
11:00		
11:15	**Morning Break**	
11:30	**Session 9:** Environmental Engineering & Groundwater	**Session 10:** Material Characterization
11:45		
12:00		
12:15		
12:30	**Lunch Break**	
12:45		
1:00		
1:15		
1:30	**Partner Presentation:** Maccaferri	
1:45	**Keynote Speaker** Dr. Jan Rots	
2:00		
2:15		
2:30	**Afternoon Coffee**	
2:45	**Partner Presentation:** GroundProbe	
3:00	**Special Session** Innovation at Rocscience	
3:15		
3:30		
3:45	**Poster Presentations & Break**	
4:00		
4:15	**Session 11:** Rockfalls	**Session 12:** Slope Stability
4:30		
4:45		
5:00		
5:15		
5:30	**Break & Room Turnover**	
5:45	**Closing Ceremony & Best Paper Award Presentation**	
6:00		

Tentative Sessions, Paper Presentations

	Presentation Slot	Paper ID	Paper Title	Presenting Author
Session 1: Mining Slope Stability **Session Chair:** Glen Guy	Paper 1	**218**	PRACTICAL APPLICATION OF DISCRETE FRACTURE NETWORKS IN 3D FINITE-ELEMENT MODELS	Gordon Sweby
	Paper 2	**114**	EFFECT OF BLAST VIBRATION ON OPEN PIT SLOPE STABILITY BY LIMIT EQUILIBRIUM	Thiago Bretas
	Paper 3	**14**	DRAGLINE BENCH STABILITY IN OPEN CUT COAL MINING	Jiwoo Ahn
	Paper 4	**195**	ENHANCING SLOPE STABILITY ANALYSIS THROUGH 3D MINING ROCK MASS MODELLING: ACCURATE REPRESENTATION OF ROCK BRIDGES AND DISCONTINUITIES FOR OPEN PIT SLOPE DESIGN	Clive Seymour
Session 2: Underground Excavations **Session Chair:** Raul Demarini	Paper 1	**175**	3D FINITE ELEMENT ANALYSIS OF SUB-LEVEL CAVING PLAN FOR INDICATIVE GROUND SUPPORT DESIGN AT BOZYMCHAK MINE, KYRGYZSTAN	Neil Bar
	Paper 2	**213**	INSITU STRESS DETERMINATION. 3D ROCK PROPERTIES AND NUMERICAL MODELLING	Phil Dight
	Paper 3	**42**	NUMERICAL STUDY ON THE RESPONSE OF BURIED PIPELINES TO DEEP EXCAVATIONS	Fu-Hsuan Yeh
	Paper 4	**62**	THREE-DIMENSIONAL NUMERICAL MODEL CALIBRATION OF AN UNDERGROUND MINE BASED ON IN-SITU STRESS MEASUREMENTS	Lucas Guimarães de Carvalho/Thiago Bretas
Session 3: Student Paper Session **Session Chair:** Andreas Gaich	Paper 1	**23**	VIRTUAL EXPERIMENTS ON COARSE-GRAINED SOIL USING X-RAY CT AND FINITE ELEMENT ANALYSIS	Mohamed Abdennadher
	Paper 2	**53**	MONITORING AND PREDICTION OF COASTAL ROCKFALL HAZARD: AN APPLICATION OF ROCSLOPE3 IN NEWCASTLE (AUSTRALIA)	Abigail Watman
	Paper 3	**188**	INVESTIGATING THERMAL DAMAGE OF SANDSTONE	Qianhao Tang
	Paper 4	**78**	BIO-ADMIXTURE FOR SHOTCRETE PERFORMANCE ENHANCEMENT	Kunze Li
Session 4: Uncertainty & Risk Evaluation **Session Chair:** Neil Bar	Paper 1	**222**	TRANSBERG METHOD. FROM DRONE FLIGHT TO HAZARD MAP – ADDING VALUE TO OPEN PIT GEOTECHNICAL ASSESSMENTS	Glen Guy
	Paper 2	**187**	A GEOTECHNICAL RECONCILIATION JOURNEY IMPLEMENTING A RISK-BASED FRAMEWORK UTILISING UNMANNED AERIAL VEHICLE (UAV) PHOTOGRAMMETRY-BASED MAPPING	Robert Botha
	Paper 3	**19**	RELIABILITY ASSESSMENT OF SLOPE STABILITY WITH STEPWISE INCREASE IN SLOPE COMPLEXITY	Zoran Berisavljevic
	Paper 4	**176**	A MULTI-CRITERIA RANKING APPROACH FOR ASSESSMENT OF GEOTECHNICAL DATA UNCERTAINTY	Vadim Louchnikov
Session 5: Tunnelling **Session Chair:** Manoj Verman	Paper 1	**50**	EFFICIENT SIMULATION OF TUNNEL-INDUCED FAILURE IN BRITTLE ROCK BASED ON A MESH-INDEPENDENT FRACTURE MECHANICS APPROACH	Penghao Zhang
	Paper 2	**144**	DESIGN OF GROUND SUPPORT TO MEET THE CHALLENGES PRESENT IN TALL TUNNELS IN A HIGH STRESS AND HIGH MOVEMENT ENVIRONMENT IN SYDNEY, AUSTRALIA.	Jock Russell
	Paper 3	**148**	IMPACTS OF THE SYDNEY METRO CITY & SOUTHWEST TUNNEL CONSTRUCTION ON EXISTING RAIL TUNNELS – BELMORE PARK CASE STUDY	Mohammad Pournaghiazar
	Paper 4	**208**	DESIGN OF A NEW MAINTENANCE SHAFT USING RS3 FINITE ELEMENT ANALYSIS AT ST JAMES STATION, HYDE PARK, SYDNEY	Max Kitson
	Paper 5	**161**	BRISBANE'S CROSS RIVER RAIL PROJECT: ASSESSMENT OF CAVERN AND SHAFT INTERACTION FOR ALBERT STREET STATION	Michael Habte
Session 6: Slope Stability **Session Chair:** Thiago Bretas	Paper 1	**172**	SLOPE STABILITY ANALYSIS OF AN OPEN-PIT MINE USING 3D LEM AND 3D FEM	Stefhany Melendez
	Paper 2	**47**	SLOPE STABILITY ANALYSIS USING LIMIT EQUILIBRIUM AND FINITE ELEMENT METHODS FOR PIT INRUSH RISK ASSESSMENT IN CADIA HILL OPEN PIT	Fery Cahyo
	Paper 3	**209**	RS3 STABILITY ANALYSIS OF CEMENTED PASTED-BACKFILLED STOPES TRANSITIONING FROM OPEN PIT AT AN ARGENTINIAN GOLD MINE	Lina Marulanda
	Paper 4	**113**	STABILITY MODELING OF COMPLEX SLIP SURFACES IN METAMORPHIC ROCKS AND STABILIZATION MEASURES	Gabriel Colorado
Session 7: Tailings **Session Chair:** Jiwoo Ahn	Paper 1	**154**	THREE-DIMENSIONAL STABILITY ASSESSMENT OF A TAILINGS DAM EMBANKMENT ADJACENT TO AN OPEN PIT	Michael Habte
	Paper 2	**27**	GEOTECHNICAL ASSESSMENT FOR SUPPORTING RE-MINING TSF GOLD TAILING USING CONVENTIONAL EXCAVATOR AND TRUCKS METHOD	Lufi Irwan Rachmad
	Paper 3	**219**	FEASIBILITY OF REINFORCING TAILINGS STORAGE FACILITIES USING POLYETHYLENE TEREPHTHALATE WASTE FIBERS	Shiella Mudenge
Session 8: Piling & Settlement **Session Chair:** Steve Chai	Paper 1	**193**	SIMPLIFIED SOLUTIONS FOR A PIER IN A TWO-LAYERED SYSTEM AND SUBJECTED TO LATERAL AND MOMENT LOADINGS	Helen Chow
	Paper 2	**63**	NUMERICAL SIMULATION OF COMPRESSION LOADED SMALL-DIAMETER DEFECTIVE AND INTACT BORED PILES.	Eliza Rios
	Paper 3	**196**	GROUND IMPROVEMENT THROUGH PERMEATION GROUTING	Ma. Rosella Mantal
	Paper 4	**165**	RECENT INNOVATIVE INTERPRETATION OF ROOT PILE LENGTH USING MAGNETOMETRY	Tiago de Jesus Souza
Session 9: Environmental Engineering & Groundwater **Session Chair:** Ashraf Ismail	Paper 1	**214**	ASSESSMENT OF NORSAND'S PERFORMANCE UNDER ZERO STRAIN BOUNDARY CONDITIONS	Wyatt Handspiker
	Paper 2	**143**	NUMERICAL ANALYSIS OF THE DRAINED/UNDRAINED BEHAVIOUR OF CLAYS FROM SELF-BORING PRESSUREMETER TEST	Ba Phu Nguyen
	Paper 3	**199**	AUCKLAND ANNIVERSARY WEEKEND FLOODS: RECOVERY AND RESILIENCE IN THE FACE OF CLIMATE CHANGE	Andrew Campbell
	Paper 4	**178**	MACHINE LEARNING-BASED ESTIMATION OF UNCONFINED COMPRESSIVE STRENGTH AND DEFORMATION MODULUS OF HEATED SANDSTONES	Stephen Akosah

Session 10: Material Characterization **Session Chair:** Maziar Partovi	Paper 1	**137**	SIMULATION OF PROGRESSIVE FAILURE OF DEFECTED MARBLE USING 2D AND 3D FINITE ELEMENT MODELS	Navid Bahrani
	Paper 2	**194**	DEVELOPMENT OF EMPIRICAL CORRELATIONS BETWEEN COMPRESSIONAL (VP) AND SHEAR WAVE VELOCITIES (VS) AND STANDARD PENETRATION TEST (SPT)-N VALUES OF SOILS	Michael Angelo Valdez/ Reuel Corsino
	Paper 3	**83**	SWEDISH ROAD CUTTINGS – NATIONAL INVENTORY, DEFINITION AND RISK STATUS	Aaron Hantler
	Paper 4	**205**	INFLUENCE OF PATTERN FOLIATION ON ROCKMASS EXCAVATION STABILITY	Marcelo Campos
Session 11: Rockfalls **Session Chair:** Anil Yunatcı	Paper 1	**133**	NOVEL DIMENSIONING FOR ATTENUATORS - THE CASE OF RHIGOS MOUNTAINS, WALES	Remo Dudler
	Paper 2	**146**	APPLICATION OF A NEW FRAGMENTATION MODULE FOR ROCKFALL SIMULATION	Davide Ettore Guccione
	Paper 3	**151**	THREE-DIMENSIONAL (3D) ROCKFALL ASSESSMENT FOR LANDBRIDGE RECLAMATION	Michael Farmer
	Paper 4	**36**	HYBRID BARRIERS AND ATTENUATORS: FULL SCALE TESTS BASED ON A RELIABILITY-DESIGN APPROACH FOR ACTIONS AND RESISTANCES, AIMED TO CALIBRATING NUMERICAL MODELS.	Luca Gobbin
	Paper 5	**38**	A NEW TOOL TO QUANTIFY THE FAILURE PROBABILITY OF ROCKFALL NET FENCES	Valerio De Biagi
Session 12: Slope Stability **Session Chair:** Lufi Irwan Rachmad	Paper 1	**20**	OVERALL BLOCK STABILITY ANALYSIS OF ROCK SLOPE WITH SEMI-AUTOMATIC EXTRACTION OF JOINT PROPERTIES FROM POINT CLOUD	Zoran Berisavljevic
	Paper 2	**66**	DETERMINATION OF SLOPE EXCAVATION RATE CONSIDERING PORE PRESSURE DISSIPATION THROUGH BACK-ANALYSIS	Lucas Guimarães de Carvalho/Thiago Bretas
	Paper 3	**39**	SYNTHETIC SLOPE PROFILES TO ASSESS ROCKFALL HAZARD ON OPEN PIT: INFLUENCE OF TOPOGRAPHY UNCERTAINTIES	Maddalena Marchelli
	Paper 4	**200**	INTEGRATING LIMIT EQUILIBRIUM ANALYSIS USING SLIDE2 SOFTWARE AND VISUAL ASSESSMENTS: A DUAL APPROACH IN ENSURING DAM SAFETY DURING THE REHABILITATION OF NKADIMENG DAM	Ayanda Tsitsa

Poster Presentations

Presentation Date	Paper ID	Paper Title	Corresponding Author
Monday, April 7TH	**8**	PHASE-FIELD MODELLING OF DYNAMIC HYDRAULIC FRACTURING IN POROUS MEDIA USING A STRAIN-BASED CRACK WIDTH FORMULATION	Mohammad Vahab
	186	ROCKFALL BACK ANALYSIS OF AN EXPERIMENTAL CASE HISTORY	Mateusz Kazimierczak
	18	USING 3D SLOPE STABILITY ANALYSIS IN AN OPEN-CUT COAL STRIP MINE: A CASE STUDY	Jiwoo Ahn
	45	A STUDY ON THE AUTOMATED IDENTIFICATION OF ROCK FRACTURES USING YOLOV8	Shih-Heng Tung
	56	DEFORMATION AND CRACK EVOLUTION OF ROCK SALT UNDER CYCLIC CREEP: INSIGHTS FROM DEM MODELLING	Kai Zhao
	68	COMPARISON OF LIMIT EQUILIBRIUM AND STRESS-STRAIN STABILITY ANALYSES OF AN OPEN-PIT MINE	Lucas Guimarães de Carvalho/ Thiago Bretas
	201	CORRELATION BETWEEN THE IN-SITU SOIL CONDITIONS AND STRENGTH OF JET GROUT SOILCRETE BY A DOUBLE-FLUID SYSTEM	Mikaela Angie Cruz/Carl Guzman
	98	DIFFERENCIAL SETTLEMENTS EVALUATION ON LANDFILL FOR BELT CONVEYOR SYSTEM CONSTRUCTION USING RS3	Thiago Bretas
	104	CALIBRATION OF ADVANCED CONSTITUTIVE MODEL PARAMETERS FOR NONLINEAR DEFORMABILITY ANALYSES	Alexandre Vilaça
	168	THE DAC AND MODEL CONFIDENCE IN IRON ORE DEPOSITS	Arturo Maldonado
	138	MULTI-SCALE CHARACTERIZATION OF SANDSTONE-SHALE INTERBEDDED FORMATIONS: INTEGRATING ROCK MATERIAL PROPERTIES FOR STABILITY ANALYSIS	Mohd Nordin Mohd Mustaqim
Tuesday, April 8TH	**9**	RS2 AS A TOOL FOR SIMPLIFIED AND EFFECTIVE ANALYSIS OF URBAN TUNNEL-INDUCED SETTLEMENTS	Amichai Mitelman
	181	STABILITY AND EARTHQUAKE-RESISTANT ENGINEERING STRUCTURES	Zvonimir Šepac
	46	APPLICATION OF THE SHANSEP MODEL IN SLOPE STABILITY ANALYSIS FOR A TAILINGS DEPOSIT	Luz Daniela Solano
	185	UNDERSTANDING OPTIMAL ROCK COVER THICKNESS IN CAVERN DESIGN USING ROCSUPPORT AND RS2: A NEW PERSPECTIVE	Sihao Yu
	81	THE INFLUENCE OF MATERIAL LAYERS ON THE PREDICTION OF ROCKFALL HAZARDS FOR HIGHWALLS	Simone Avanzini
	197	COMPARATIVE ANALYSIS OF CONE PENETRATION TESTING (CPT) AND STANDARD PENETRATION TESTING (SPT) IN ASSESSING LIQUEFACTION POTENTIAL IN THE PHILIPPINE GEOTECHNICAL CONTEXT	Jonalyn Cabañas/Athena Lim
	100	3D ANCHORED RETAINING WALL STABILITY ANALYSIS	Thiago Bretas
	184	STABILITY RISK AND ECONOMIC ANALYSIS OF STEEPENED EAST WALL OF HUNI PIT- A CASE STUDY	Mustapha Seidu