Monday, 3 December	Tuesday, 4 December, Seminar Room 1 Ground Floor Foyer	Wednesday, 5 December, Seminar Room 1 Ground Floor Foyer	Thursday, 6 December, Seminar Room 1 Ground Floor Foyer
	8:00 Registration, Ground Floor Foyer	**8:15** Registration, Ground Floor Foyer	**8:15** Registration, Ground Floor Foyer
	8:15 Opening, Elena Pasternak		
	Session 1. Chair Elena Pasternak	Session 5. Chair Arcady Dyskin	Session 9. Chair Lin Ye
	8:30 Andrei Kotousov Development of Early Damage Mechanics	**8:30** Miles B Rubin A thermomechanical breakage model for shock-loaded granular media	**8:30** Alexander M Puzrin Can earthquakes trigger delayed snow avalanches?
	9:15 Ultrasonic monitoring of compressive damage evolution in concrete, Aditya Khanna, Andrei Kotousov, Ching-Tai Ng, L.R. Francis Rose	**9:15** Multiscale modelling of selective laser melting process for residual stress and distortion assessment of a cantilever beam, Brandon Lay, Weiping Hu	**9:15** Analytical solution for thermally induced axial stresses in end bearing heat exchanger piles embedded in homogeneous soils, Dunja Perić, Aaron Cossel, Sharmin Sarna
	9:40 The application of piezoelectric strain gauges to enhance fatigue crack closure measurement, Chris Wallbrink, Dylan Agius	**9:40** Numerical Study of Applied Continuum Mechanics for Damage Detection on a Cantilever Plate, Aaron Baker, Stuart Wildy, John Arkwright	**9:40** Modelling Fault Instability caused by Asymmetric Friction, Rui Wong, Elena Pasternak, Arcady Dyskin
	10:05 On the Simplified Modelling of Front Shapes of Fatigue Cracks, B. Zakavi, A. Kotousov, A. Khanna, R. Branco	**10:00** Vibration fault detection of fracture in a wind turbine tower foundation, Mohammed al-Hadad, Kristoffer McKee, Ian Howard	**10:00** Wave Propagation in Materials with Closing Micro-Cracks Modelled by Discrete Chain of Bilinear Oscillators with Damping, Maria Kuznetsova, Elena Pasternak, Arcady Dyskin
	10:25 Tea	**10:20** Tea	**10:20** Tea
	Session 2. Chair Miles B Rubin	Session 6. Chair Guowei Ma	Session 10. Chair Alexander M Puzrin
	10:40 Itai Einav The collapsibility of partially soaked crunchy soft matter	**10:35** Sergey Turuntaev Interactions of hydraulic fractures	**10:35** Yiu-Wing Mai and Lin Ye Cutting Mechanics of Soft Materials and the Role of Fracture Toughness
	11:25 Transient dissipative solitary waves during oedometric compaction of a highly porous carbonate, Klaus Regenouer-Lieb, Thomas Blach, Christoph Schrank, Thomas Poulet, Manman Hu, Xiao Chen, Hamid Roshan	**11:20** Multi-scaling-based fractal damage in non-linear materials, Ali Karrech, Mirko Manca, Mohamed Elchalakani	**11:20** Microfabrication by Severe Plastic Deformation: Architecturing of Multi-Phase Materials by Deformation-Induced Patterning, Yuri Estrin, Yan Beygelzimer, Roman Kulagin
	11:50 Scattering attenuation and dispersion of elastic waves in fractured media, Boris Gurevich	**11:45** On the coarse-scale residual opening of hydraulic fractures created using the Channel Fracturing technique, Luong Hao, Aditya Khanna, Andrei Kotousov, L.R. Francis Rose	**11:45** A reexamination of crack deflection at interfaces, Jay Kruzic, Mahabub Alam, John Parmigiani
	12:15 The effect of abrasive particle size on the wear behavior of AISI 440 stainless steel, Siyu Huang, Wen Hao Kan, Hongjian Wang, Li Chang	**12:05** Field Scale Case Studies of Blue Shift Damage Monitoring Method, Junxian He	**12:05** Effect of electrospun cellulose nanocrystals/polysulfone interleaves on the interlaminar fracture toughness of carbon fiber/epoxy composites, Shenming Cai, Yan Li, Hong-Yuan Liu, Y-W Mai
	12:40 Lunch	**12:30** Lunch	**12:25** Lunch
	Session 3. Chair Itai Einav	Session 7. Chair Sergey Turuntaev	Session 11. Chair Andrei Kotousov
	13:25 Karol Miller Structural Integrity, Failure and Initiation and Propagation of Discontinuities in Soft Biological Tissues	**13:15** Guowei Ma Fracture Mechanism of Non-straight Fissure in Brittle Material	**13:10** Arcady Dyskin Fracture propagation in Cosserat Continua
	14:10 Boundary smoothing for topologically optimized designs using B-spline, Dedao Liu, Kai Zhou, Louis N. S. Chiu, Wenyi Yan	**14:00** Fatigue Scatter of the tests results related to error of applied stress, Przemysław Strzelecki	**13:55** The Influence of the Windscreen inclination angle of Small Passenger Car on Brain Biomechanical Responses in Pedestrian Impact, Fang Wang, Chao Yu, Bingyu Wang, Guibing Li, Adam Wittek
	14:35 Developments on Risk-Based Fatigue Failure Prediction for Application to Military Aircraft, Ribelito F. Torregosa, Weiping Hu, Chris Wallbrink	**14:25** Cyclic torsion and tension-compression behaviour of aluminium alloy and steels for high-cycle fatigue, Tomasz Tomaszewski	**14:20** Using a commercial graphite intercalation compound for flame-retarding elastomeric composites, Hao Wu, Jun Ma
	15:00 Fault Detection in randomly vibrating systems: a simple model, Neville Fowkes	**14:50** Advanced Multiscale Modelling and Simulation of Metal Fatigue and its Applications, Marijo Mlikota	**14:45** Flexure behaviour of Rubberised Concrete-Filled Single-Skin Circular Tubes, Mohamed Elchalakani, Ali Karrech, Minhao Dong, Bo Yang
	15:25 Tea	**15:15** Tea	**15:10** Tea
	Session 4. Chair Boris Gurevich	Session 8. Chair Adam Wittek	**15:25-16:00 Conference closure, Student Prize Awards**
	15:40 Ultrasonic based crack imaging in concrete, Jay Kumar Shah, Subhra Majhi, Abhijit Mukherjee	**15:30** Shape Memory Effect of Polymer Glass and Its Application in Molding Process: A Numerical Simulation Study, Weidong Liu, Liangchi Zhang	The name of presenter is underlined. Postgraduate student presenters are in red.
	16:00 The dynamic fracturing patterns of multiple types of rock with Brazilian tests investigated by high-speed 3D-DIC, Haozhe Xing, Gonglinan Wu, Qianbing Zhang, Sevda Dehkhoda, Jian Zhao	**15:55** Ultrasonic Based Detection of Steel-concrete Interfacial Debonding in Reinforced Concrete with Top-Bar Effect, Yikuan Wang, Abhijit Mukherjee, Arnaud Castel	Keynote presentations are marked by green background
	16:20 Influence of the shape of 3-D cracks on their growth in biaxial compression, Hongyu Wang, Arcady Dyskin, Elena Pasternak, Phil Dight	**16:15** Measurement of residual stresses in rails using Rayleigh waves, James Martin Hughes, James Vidler, Aditya Khanna, Munawwar Mohabuth, Andrei Kotousov, Ching-Tai Ng	
	16:40 Stress distribution in osteomorphic blocks with holes, Maxim Khudyakov, Elena Pasternak, Arcady Dyskin	**16:35** Meeting of the Australian Fracture Group, All are welcome	
17:00-19:00 Wecome Reception and Registration, UWA Club, Club Café Balcony	**17:00** Development of Numerical Rock Model Using Discrete Element Method, Takahiro Gondo, Kenji Furui	**18:30 Pre-dinner Drinks, Formal Dining Foyer**	
	17:20 Transitional Negative Stiffness and its Effect on Material Instability and Failure under Compression, A. Dyskin, E. Pasternak, Yuan Xu	**19:00 Conference banquet, UWA club, Formal Dining Room19:00-22:30**	