

Session	Presenter (*student)	Talk Title
<b>WEDNESDAY</b>		
<i>Registration, coffee and poster setup</i>		
08:30		
09:00	<i>Active tectonics, hazards, and geomorphology</i>	<b>KEYNOTE: Catriona Menzies. Fluid flow and active tectonics</b>
09:30		E. Behboudi* Shallow tectonic stress magnitudes at the Hikurangi subduction margin, New Zealand
09:45		<b>TBC</b>
10:00		S. Bello Morphotectonic anatomy and segmentation pattern of the 1983, Mw 6.9 Borah peak earthquake (Idaho, USA)
10:15		N. I. Medhat* Inclinator and improved SBAS methods with random forest for landslides and anchor degradation monitoring in Otoyoto town, Japan
10:30		<i>Coffee and posters</i>
11:00	<i>Fault zones and fault growth</i>	A. Procter/L. Lonergan Investigating the effect of sediment loading on the growth of a shale-cored anticline, Caspian Sea
11:15		B. Andrews Spatial and temporal variations in slip rate across extensional fault networks
11:30		B. Holdsworth Fissure fills and dykes: the geology of near-surface faulting in basement terrains
11:45		L. Wedmore An active fault database for the Luangwa Rift, Zambia: implications for continental rifting in thick lithosphere
12:00		C. Orlov* Determining the origin and evolution of tectonic structures on Mars from surface data
12:15		<i>Lunch and posters</i>
13:15	<i>Fractures, fluids and melts</i>	A. Macente The evolution of paleo-porosity in basalts: reversing pore-filling mechanisms using X-Ray computed tomography
13:30		S. Masoch* Interplay between fluid flow and rock deformation in an exhumed hydrothermal fault-vein network
13:45		A. Bistacchi Fracturing in a mechanical multilayer under extension: natural examples and numerical modelling
14:00		V. Twomey* Deciphering tectono-magmatic relationships across southeastern Iceland through palaeostress reconstruction from fault/fracture analysis
14:15		G. Amicarelli* Reliability of automated fracture detection methods from decimeter resolution aerial imagery
14:30		<i>Coffee and posters</i>
15:00	<i>Georesources and applied structural geology</i>	<b>KEYNOTE: Mark Ireland. Why reliable and reproducible structural interpretations are key for future energy projects</b>
15:30		F. Robledo* The impact of fault interpretation strategies on fault patterns
15:45		L. Burrell Variation of structural style across the Yorkshire Wolds Chalk aquifer: recent findings from field mapping campaigns and seismic interpretation
16:00		R. Butler Section restoration and the structural setting of the candidate rad-waste repository in the Jura fold-thrust belt, Switzerland
16:15		J. Gale Natural and engineered fractures in the energy transition: learnings from core, models, and outcrops
16:30		<i>Poster session with refreshments</i>
18:30		<i>Finish day 1</i>

<b>THURSDAY</b>		
<i>Coffee</i>		
08:30		
09:00	<i>Strain, rheology and micro-structures</i>	<b>KEYNOTE: David Wallis. Stress fields of dislocations in quartz from the Karakoram Fault Zone and their role in transient creep of the continental crust</b>
09:30		A. McCaig Strain localisation in oceanic detachment faults: are serpentine and talc weak minerals?
09:45		G. Toffol* Stresses of seismic rupture propagation preserved in the lattice of faulted garnets
10:00		E. Blereau Using kyanite to constrain changes in deformation regime and partial melting during metamorphism
10:15		M. Chinello* The seismic cycle in bituminous dolostones (Central Apennines, Italy)
10:30		<i>Coffee and posters</i>
11:00	<i>Rifting and basin evolution</i>	E. E. Osagiede Topological characterisation of rift margin fault network, northern North Sea rift system
11:15		M. Carpenter* Comparing intrarift and border fault structure in the Malawi Rift: Implications for normal fault growth
11:30		S. Brown* How and when do intraplate basins record deformations? A multiscale approach to Cenozoic deformations of the Paris Basin
11:45		S. Chantraprasert A pre-rift low-angle shear zone: its origin and influence on rift structure, Central Gulf of Thailand
12:00		M. Froemchen* How lithospheric thickness and strength variations facilitate the rifting of ancient cratonic lithosphere
12:15	A. Tamas Using U-Pb calcite geochronology to better constrain basin-bounding fault reactivation, Inner Moray Firth Basin, North Sea	
12:30		<i>Lunch and posters</i>
<i>Tectonics Studies Group AGM</i>		
14:30	<i>Convergent margins, intra-continental plate deformation and magmatism</i>	S. Z. Woodley* Tectonic shortening structures in western Arabia Terra, Mars
14:45		G. Arienti* 3D structural modelling in the North-Western Alps (Aosta Valley, Italy): a powerful tool for exploring the tectonic evolution of the Alps
15:00		Z.G. Lugoboni* Post-nappe brittle deformation in the NW Alps: age constraints from 40Ar/39Ar dating of pseudotachylytes
15:15		R. Dunn* Demonstrating Scandian age seismogenic deformation within the Moine Thrust Zone using in-situ Rb-Sr LA-ICP-MS
15:30		
16:00	<i>Chair: L. Wedmore</i>	T. Mattsson Melt transport in the Götemar granite pluton
16:15		J. Sears Plate tectonic implications for a quadrupolar Proterozoic geodynamo
16:30		R. Vernon Insights into the structure of the Maltese Islands from new geological mapping
16:45		K. Groves/M. Allen Does the rain or the strain shape the mountain chain?
17:00		

## POSTERS

### Active tectonics, hazards, and tectonic geomorphology. Session sponsor: COMET

1	Daniel Gittins*	Estimating the depth extent of surface rupturing creep events along the Central San Andreas Fault
2	Federico Pietrolungo*	The November 9, 2022, compressional seismic sequence (Mw 5.5)- another piece of information to the 3D seismotectonic fault model of the coastal Marche-Adriatic offshore area (Italy)
3	Laura Gregory	Quantifying Holocene fault slip rates in SW Turkey: results from cosmogenic nuclide analyses on bedrock fault scarps
4	Bex Robertson*	Is there an isotopic signature to co-seismic deformation? An investigation
5	Natalie Forrest*	InSAR time-series of postseismic deformation on dip-slip faults
6	Ake Fagereng	The 155 km long intraplate, post-glacial, Pärvie fault, Sweden: Insights into stress transients triggering large intraplate earthquakes?

### Fault zones and fault growth

7	Giulia Lisi*	Post-Messinian tectonics of the Apulian plateau offshore Capo Santa Maria di Leuca (Southern Italy)
8	Phoebe Sleath*	Outcrop observations of thrust fault linkage in a multilayer with abrupt rheological changes
9	Ahmed Alghurabi*	FWI as a tool to predict fault zone properties: Samson Dome, SW Barents Sea
10	Graham Potts	Quantitative relationships between fault kinematics and glacial processes
11	Sam Wimpenny	Evidence for a time-dependent decrease in fault strength

### Fractures, fluids and melts

12	Craig Magee	Intrusion-induced forced folds and fractures
13	Emily Madoff*	A structural analysis of the layered Kakortokites within the Ilímaussaq Complex, South Greenland
14	Stefano Casiraghi*	A semi-automatic workflow for structural interpretation of large point-cloud digital outcrop models on complex fractured metamorphic rocks (Aosta Valley, Italy)
15	Francisca Robledo*	The impact of competence contrast on normal fault dip-linkage
16	Daniel Kluvanec (presented by Ken McCaffrey)	Making use of fault orientation in deep learning models applied to 3D seismic data

### Georesources and applied structural geology. Session sponsor: Geosolutions Leeds

17	Dan Mircea Tamas	The role and control of impurities in the deformation of salt (Ocele Mari salt mine, Romania)
18	Isobel Nash*	From large scale to small scale: The tectonic environment and microstructural characteristics of gold-bearing quartz veins at Croagh Patrick, Ireland
19	Joe Connolly*	Partitioning of fluid flow along faults and fractures in the Bristol Channel Basin: implications for low carbon geoscience projects in SW England
20	Craig Magee	Tektonika – a new diamond access journal for structural geology and tectonics

### Strain, rheology and microstructures

21	Auriol Rae	Rate-dependent strength and the scaling of impact craters
22	Ben Latimer*	Strain archives of enclaves and its correlation to rheological conditions: a magnetic and petrographic analysis
23	Eloise Matthews*	Structural asymmetry and shock metamorphism as indicators of impact obliquity at the Gosses Bluff impact crater
24	Jack McGrath*	A modelled case for dissolution precipitation in the Southern Alps, New Zealand
25	Manon Carpenter*	Signatures of dissolution-precipitation creep in the mid crust: an example from the Badcall shear zone, NW Scotland
26	Stella Johnson*	Deformation microstructures in quartz of peak-ring granitoids of the Chicxulub impact crater
27	Miriana Chinello*	Mirror-like surfaces in bituminous dolostones (Central Apennines, Italy)
28	John Wheeler	The use of electron backscatter diffraction in structural geology

### Rifting, basins and sedimentation

29	Malte Froemchen*	Basement rheology influenced rift evolution in the North Taranaki Basin, New Zealand
30	Oke I. Okwokwo*	How have thick evaporites affected early sea-floor spreading magnetic anomalies in the Central Red Sea?
31	Riccardo Sordi*	New insights into a Permo-Triassic rift system: a case study from the Utsira High area, northern North Sea
32	Billy Andrews	The effect of human factors and measurement obliquity when extracting fault data from 3D seismic data.
33	Gayle Plenderleith	The effect of breached relay ramps on early post-rift sedimentary systems

### Convergent margins, intra-continental plate deformation and magmatism

34	Giulia Fedrizzi*	Melt patterns in migmatites: linking numerical experiments and field observations to understand rock-melt mixtures
35	Taija Torvela	Strain localisation is not primarily controlled by melt fraction in the migmatitic middle crust
36	Gamal Ahmed*	The relationship between thrusting and dyke emplacement: Insight from the Um Gheig thrust belt, Egyptian Nubian Shield (East African Orogen)
37	Tobias Mattsson	Deciphering laccolith growth with palaeomagnetism
38	Jim Sears	Proterozoic Supercontinent Nuna in a quadrupolar framework
39	JK Ammu	Characterizing fracture systems and their connectivity from the frontal exposure of a major thrust: Insights from Ramgarh thrust, Eastern Himalaya, Sikkim