

TSG 2003

Conference Programme

Wednesday 8th January

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| 9:30 | The significance of the Caledonian Orogeny (<i>sensu stricto</i>) in Britain and Ireland
P. Ryan & J. Soper |
| 9:45 | Fault block rotation and strain in transtension
J.F. Dewey |
| 10:00 | Sinistral transpression during accretion of the Trinity Peninsula Group of the Antarctic Peninsula and evidence for large tract-bounding faults.
A.P.M. Vaughan, R.A.J. Trouw & J.D. Bradshaw |
| 10:15 | Transpressive duplex and flower structure: Dent Fault System, NW England
N. Woodcock and B. Rickards |
| 10:30 | Restraining Bends, Flower Structure Coalescence, and Transpressional Duplexing in the Mongolian Altai
D. Cunningham |
| 10:45 | Discussion |

11:00 Coffee

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| 11:30 | Gravitational collapse structures in the Venezuelan Andes revealed by SAR JERS imagery
D. Dhont, G.E Backé, Y. Hervouët |
| 11:45 | Drastic syn-collisional kinematic changes in the external Western Alpine arc possibly reflect the gradual development of lateral extrusion.
T. Dumont, C. Authemayou and J-D. Champagnac |
| 12:00 | Neogene-Quaternary deformation in the northern part of the Venezuelan Andes from satellite imagery analysis
G. Backé, D. Dhont, Y. Hervouët |
| 12:15 | What drives plate tectonics? Slab pull, ridge push or geomagnetic torque from the CMB? A new look at the old players vis-a-vis an exciting new one.
M.F. Osmaston |
| 12:30 | Pliocene-Quaternary reorganisation of the Arabia-Eurasia collision
M. Allen, J. Jackson, E. Blanc, M. Ghassemi & R. Walke |
| 12:45 | Discussion |

13:00 Lunch

- 14:00 The rheology of fine-grained psammites deforming in slate belts under low grade metamorphic conditions
I. Kenis, Janos L. Urai, M Sintubin & W. van der Zee
- 14:15 Electrical conductivity of polycrystalline olivine
S. Ten Grotenhuis, C. Spiers & M. Drury
- 14:30 Influence of the cleavage/bedding angle on magnetic and phyllosilicate fabrics: examples from the Anglo-Brabant belt, Belgium
T.N. Debacker & M Sintubin
- 14:45 An integrated microstructural and geochemical study of fault and fluid related processes in the Median Tectonic Line, Japan.
S. Jefferies, B. Holdsworth & G. Pearson
- 15:00 Melt segregation, pervasive melt migration and AMS fabric development from migmatites to crustally-derived granite: Central Vosges
J. B. Edel, K. Schulmann & Josef Ježek
- 15:15 Discussion

15:30 Tea

- 16:00 Development of 'Subgrains' by Water-Assisted Cataclasis
B. den Brok
- 16:15 Tracking flow geometry in uniaxial compression of short cylinders of Solnhofen limestone using the microstructure in calcite
S. Llana-Fúnez and E.Rutter
- 16:30 Microstructural development of rock salt: Observations from in-situ heating experiments
M. Bestmann, S. Piazzolo, C. Spiers, D. Prior & C. Peach
- 16:45 Deformation mechanisms and P-wave velocity patterns from mylonitic metagabbros deformed at amphibolite and granulite facies conditions
L. Baratoux, K. Schulmann, P. Štípská & A. Tomášková
- 17:00 Lower Mantle Seismic Anisotropy Generated by Subduction Body Force Stresses Beneath the 660km Phase Transition.
S. Nippres, Nick Kusznir & Michael Kendall
- 17:15 Emplacement of the Whin Sill – magma flow geometries and mechanisms
D.Liss, D. Hutton & B. Owens
- 17:30 Relation of dyke intrusion to deformation fields
M. Casey, J. Cann & J. Edwards
- 17:45 Discussion

18:00 Posters followed by Wine Reception

Thursday 9th January

9:00	Evidence for a critically stressed upper crust D.J. Sanderson
9:15	Fault density scaling: analysis of power-law systems in two dimensions T. Manzcchi, J.J. Walsh & W. Bailey
9:30	The Gubbio normal fault and the Colfiorito fault system within the active faults of the Umbria Marche Apennines (Central Italy): a comparison between geological and geophysical data. F. Mirabella & M.R. Barchi
9:45	Variation in throw-rate histories between initially localised and initially distributed normal fault systems. G.P. Roberts & I. Papanikolaou
10:00	Distinct Element Modelling of Fault Growth in Multilayer Sequences M. Schöpfer, C.C. Childs & J.J. Walsh
10:15	Discussion

10:30 Coffee

11:00	Towards the prediction of seismic anisotropy in sedimentary rocks. S. Valcke
11:15	Predicting deformation around El Asnam, Algeria via forward modelling based on elastic dislocation theory D. Healy, G. Yielding & N. Kusznir
11:30	Northern North Sea Permo-Triassic Basin Architecture: A new vision R.A. Hodgkinson, J.R. Underhill, M. Tomasso, N. Banbury & R. Cooper
11:45	Inversion structures in rift basins: real shortening events or products of strain partitioning during transtension? R.E. Holdsworth, N. de Paola, R.R. Jones, K.McCaffrey & P.Clegg
12:00	New insights into the timing and driving mechanisms of exhumation in the western UK basin system S.P. Holford, P.F. Green & J.P. Turner
12:15	Scale space topology and natural scales of geological surfaces S. A. Stewart, P. L. Rosin, G. J. Hay & T. J. Wynn
12:30	Calcite fabric development during the spatial and temporal evolution of a high-strain zone S.M. Reddy & C. Buchan
12:45	Discussion

13:00 Lunch

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| 14:00 | Structural Controls on Leakage from a Carbon Dioxide Reservoir in Southeastern Utah, USA.
B. Dockrill, Z.K. Shipton, & J.P. Evans |
| 14:15 | Preliminary results from forward modelling the basement of the PreCaspian and Amadeus Basins give new insights into the generation of ultra deep basins
D. Duggan & Paul Ryan |
| 14:30 | A 3-D perspective on the formation of segmented normal fault
C. Childs, W. Bailey, W.R., C. Bonson, A. Nicol & J. Walsh. |
| 14:45 | Coeval micro-polygonal faulting and orthogonal jointing in Oligocene Boom Clay (Belgium)
B Dehandschutter, M. Sintubin, N. Vandenberghe, S. Vandycke, P. Gaviglio, L. Wouters & J Mertens |
| 15:00 | Characterisation of Natural Fracture Networks by Fluid Flow Modelling: Application of the Parallel Plate Model
R.J. Leckenby, D.J. Sanderson, L. Lonergan |
| 15:15 | Discussion |

15:30 Tea

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| 16:00 | A major tectonic unconformity in the Dalradian of Ireland
D. Hutton & G.I Alsop |
| 16:15 | The northern termination of the Ben More and Glencoul Thrusts, Assynt
M. Krabbendam & G. Leslie |
| 16:30 | Large-scale recumbent folds in the Gaick “sea of psammite”: implications for Caledonian structural architecture in the central Grampian Highlands, Scotland.
G. Leslie & M. Krabbendam |
| 16:45 | Strain distribution in the Mam Tor landslip, Derbyshire
E.H. Rutter, C. Arkwright & R.F. Holloway |
| 17:00 | Digital Structural Mapping: the end of life as we know it
K.J.W. McCaffrey, R.E. Holdsworth, R.W. Wilson & R.R. Jones |
| 17:15 | Discussion |

17:30 AGM

18:00 Posters followed by Conference Dinner

Friday 10th January

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| 9:30 | Testing alternative hypotheses for the Early Mesozoic evolution of Tethys in Western Turkey
A. Robertson, T. Ustaomer, T. Andrew, A. Collins, E. Pickett & J.E. Dixon |
| 9:45 | Development of the Jan Mayen microcontinent by linked propagation and retreat of spreading ridges
R.A. Scott, L.A. Ramsey, S.M. Jones, S. Sinclair & C.S. Pickles |
| 10:00 | Structure and evolution of an obliquely sheared continental margin: Rio Muni, West Africa
J. Turner, B. Rosendahl & P. Wilson |
| 10:15 | In search of fault(s) responsible for the historical earthquakes at the ancient city of Sagalassos (SW Turkey)
D. Similox-Tohon, M. Sintubin, P. Muechez & M Waelkens |
| 10:30 | Significance of multiple decollement in nature and models: Po Plain case (Italy)
D. Massoli , H.A. Koyi, M.R. Barchi & S. Rogledi |
| 10:45 | Discussion |

11:00 Coffee

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| 11:30 | Fold vergence reversal at Rhoscolyn
S. Treagus & J. Treagus |
| 11:45 | The geometry and kinematics of sheath folds
G.I. Alsop & R.E. Holdsworth |
| 12:00 | Evolution of Interference structures and Successive Sheath Folding during a Single Phase of Ductile Shearing: A Case Study from Basement Rocks in the Northwestern Indian shield
D.C. Srivastava |
| 12:15 | Refolding: some structural effects of layer competence contrasts
R.J. Lisle |
| 12:30 | Lower Crustal Folding and the Miracle of Exhumation- Insights and Oversights from Norwegian Eclogites
R. Foreman, T.B. Andersen & J. Wheeler |
| 12:45 | Discussion |

13:00 Lunch

14:00	Fault zone heterogeneity in carbonate successions: field examples from the Maghlaq Fault Zone, SW Malta C. Bonson, C. Childs & J. Walsh
14:15	Earthquake recurrence intervals on geological timescales A. Nicol, J. Walsh & T. Manzocchi
14:30	The sound of damage in quartz: a cracking study. N. Timms, J.M. Reyes Montes, D. Collins, K. Mair & D.J. Prior
14:45	Structure and fluid flow constraints on earthquake slip weakening mechanisms C.A.J. Wibberley
15:00	Thrust sequences: have we been asking the wrong question? R. Butler
15:15	Discussion

15:30 Close

15:45 Tea

16:15 Field Trip Introduction Talk