

TRABAJOS DE GEOLOGÍA

N.º 29 (2009)

International Meeting of Young Researchers in Structural Geology and Tectonics (Part 1)

M. GUTIÉRREZ-MEDINA, J. POBLET, D. PEDREIRA and C. LÓPEZ-FERNÁNDEZ: <i>International Meeting of Young Researchers in Structural Geology and Tectonics (YORSGET-08): introduction</i>	11 - 13
R. W. H. BUTLER: <i>Submarine thrust belts: combining marine seismic and field analogues to study the localization of contractional deformation in sedimentary successions</i>	14 - 16
J. F. DEWEY, M. A. MANGE and P. D. RYAN: <i>Arc-continent collision: orogeny and continental growth</i>	17
R. J. LISLE: <i>Geological folds in three dimensions</i>	18 - 22
J. MALAVIEILLE: <i>Impact of surface processes on the dynamics of orogenic wedges: analogue models and case studies</i>	23 - 28
N. S. MANCKTELOW: <i>Fracture and flow in natural rock deformation</i>	29 - 35
A. PÉREZ-ESTAÚN, J. ESCUDER-VIRUETE and D. BROWN: <i>Orogenic processes in transpressional regimes</i>	36 - 41
J. G. RAMSAY: <i>Structural Geology: where have we come from and where might we be going next?</i>	42 - 44
A. M. C. ŞENGÖR: <i>Tectonic evolution of the Mediterranean: a dame with four husbands</i>	45 - 50
J. SUPPE, M-H. HUANG and S. CARENA: <i>Mechanics of thrust belts and the weak-fault/strong-crust problem</i>	51 - 55
C. E. MACELLARI: <i>Exploration success in the Subandean Trend of South America</i>	56 - 57
S. NARUK, F. DULA and M. MORA-GLUKSTAD: <i>Future of structural geology research. An Oil Industry perspective</i>	58 - 59
D. AERDEN, S. ALDAHER, M. BOUYBAOUENE and M. SAYAB: <i>Microstructural map of a thin-section scale fold pair; implications for folding mechanism in a fine-grained garnet</i>	60 - 63
D. AERDEN and M. SAYAB: <i>Comparing porphyroblasts and plate motions in the Betic Cordillera</i>	64 - 67
M. AFLAKI and M. MOHAJJEL: <i>Structural evolution of the Laibid pop-up structure Sanandaj-Sirjan Zone, West Iran</i>	68 - 73
G. I. ALSOP: <i>Unravelling patterns of folding in high-strain zones</i>	74 - 77
A. AMILIBIA: <i>Compressional deformation along the Chañarcillo basin west margin: North Chilean Late Jurassic-Early Cretaceous back-arc basin</i>	78 - 83
F. ANAHNAH, J. GALINDO-ZALDÍVAR, O. AZZOZ, P. RUANO, A. CHALOUAN, A. PEDRERA, A. RUIZ-CONSTAN and N. BOUREGBA: <i>The Nador dipole: one of the main magnetic anomalies of the NE Rif</i>	84 - 89
B. ANTOLÍN, E. APPEL, C. MONTOMOLI, I. DUNKL, L. DING and R. GLOAGUEN: <i>Magnetic fabric study in the Triassic slates of the Tethyan Himalaya (SE Tibet)</i>	90 - 93
J. BABAUT, J. VAN DEN DRIESSCHE and A. TEIXELL: <i>Tectonics from topography: two examples from the Pyrenees and the High Atlas</i>	94 - 100
J. BAUSÀ, S. TAVANI, F. STORTI and J. A. MUÑOZ: <i>Longitudinal fracture generation in the Fiastrone anticline, Sibillini thrust sheet, Northern Apennines (Italy)</i>	101 - 105
F. BECHIS and L. GIAMBIAGI: <i>Kinematic analysis of small-scale faults and its application to the study of an extensional depocentre, Neuquén basin, west-central Argentina</i>	106 - 111

A. BEIDINGER, K. DECKER and K. H. ROCH: <i>Combined geophysical, geomorphological and geological studies at the active Lassee Segment of the Vienna Basin Fault System</i>	112 - 118
S. BIGI, C. GALUPPO, L. PERFETTI, S. COLELLA and M. CIVALLERI: <i>Along-strike pre-orogenic thickness variation and onlapping geometries control on thrust wedge evolution: insights from sandbox analogue modelling</i>	119 - 128
S. BURCHARDT, D. C. TANNER and M. KRUMBHOLZ: <i>Emplacement of the Slaufrudalur Pluton, southeast Iceland, deduced from field observations and its three-dimensional shape</i>	129 - 130
S. BURCHARDT and T. R. WALTER: <i>Sequential formation and propagation of caldera ring-faults analysed in analogue experiments</i>	131 - 132
S. Y. CAO, J. L. LIU and B. LEISS: <i>Deformation microstructures and textures, and regional tectonic significance of high-temperature shearing of the Diancang Shan Complex, Yunnan, China</i>	133 - 141
N. CARRERA and J. A. MUÑOZ: <i>Structure and thrusting evolution of the southern Cordillera Oriental (N Argentine Andes)</i>	142 - 145
E. CASCIELLO, J. VERGÉS, D. W. HUNT and E. BLANC: <i>Fold distribution and multilayer properties, a case study from the Lurestan province of Iran</i>	146 - 150
G. CASINI and P. D. RYAN: <i>Structural analysis of the Louisburgh-Clare island succession, Co. Mayo, Ireland</i>	151 - 156
L. CASINI, P. SENSERINI and G. OGGIANO: <i>Evidence for water-assisted diffusion creep in the mylonitic gneisses of Giuncana, northern Sardinia, Italy</i>	157 - 163
J.ČERNÝ, R. MELICHAR, M. KNÍŽEK and J. JANEČKA: <i>Touching the detachment (Ockov Fault, Barrandian, Czech Republic)</i>	164 - 167
A. ÇİÇEK and A. KOÇYİÇİT: <i>A NNE-trending active graben in the Isparta Angle, SW Turkey: Karamik Graben, its geometry, age and earthquake potential</i>	168 - 174
P. CLARIANA, J. GARCÍA-SANSEGUNDO and J. GAVALDÁ: <i>The structure in the Bagnères de Luchon and Andorra cross sections (Axial Zone of the central Pyrenees)</i>	175 - 181
C. D. CONNORS, B. RADOVICH, A. DANFORTH and S. VENKATRAMAN: <i>The structure of the Offshore Niger Delta</i>	182 - 188
N. CUBAS, B. MAILLOT, Y. M. LEROY, C. BARNES and M. PUBELLIER: <i>Prediction of thrusting sequence based on maximum rock strength and sandbox validation</i>	189 - 195
M. DABROWSKI and D. W. SCHMID: <i>Mechanical anisotropy of a two-phase composite consisting of aligned elliptical inclusions</i>	196 - 199
D. D'AMATO, B. PACE, J. CABRAL and P. M. FIGUEIREDO: <i>The Vale de Santarém Neogene trough in the seismotectonics framework of the Lower Tagus Valley (Portugal)</i>	200 - 205
Z. DAVOODI and A. YASSAGHI: <i>Syn- to post-collision role of Izeh transverse fault zone in deformation of the Zagros fold-thrust belt</i>	206 - 212
J. DE VERA, J. GINES, M. OEHLDERS, K. MCCLAY and J. DOSKI: <i>Structure of the Zagros fold and thrust belt in the Kurdistan Region, northern Iraq</i>	213 - 217
J. DE VERA and K. MCCLAY: <i>Structure of the western Brooks Range fold and thrust belt, Arctic Alaska</i>	218 - 222
L. DI FRANCESCO, S. FABBIA, M. SANTANTONIO, J. POBLE and S. BIGI: <i>Forward modelling of the Montagna dei Fiori fault-related fold (Central Apennines, Italy), using combined kinematic models</i>	223 - 233
R. DÍEZ FERNÁNDEZ and J. R. MARTÍNEZ CATALÁN: <i>Variscan recumbent folding of Ordovician plutons in the Malpica-Tui Unit (NW Iberia)</i>	234 - 236
J. C. DUARTE, V. VALADARES, P. TERRINHA, F. ROSAS, N. ZITELLINI and E. GRÀCIA: <i>Anatomy and tectonic significance of WNW-ESE and NE-SW lineaments at a transpressive plate boundary (Nubia-Iberia)</i>	237 - 241
U. EXNER, E. DRAGANITS and B. GRASEMANN: <i>Folding in Miocene, unconsolidated clastic sediments (Vienna basin, Austria) – gravitational versus tectonic forces</i>	242 - 245

F. J. FERNÁNDEZ, F. DÍAZ-GARCÍA and J. MARQUÍNEZ: <i>Quartz fabrics pattern along the Forcarei synform (NW Iberian Massif) and their tentative tectonic model</i>	246 - 253
J. FERNÁNDEZ-LOZANO, D. SOKOUTIS, E. WILLINGSHOFER, G. DE VICENTE and S. CLOETINGH: <i>Lithospheric-scale folding in Iberia from the perspective of analogue modelling</i>	254 - 259
G. FERNÁNDEZ-VIEJO, J. GALLASTEGUI and J. A. PULGAR: <i>Structure and tectonic evolution of the eastern Cantabrian margin: results from the MARCONI multichannel seismic data</i>	260 - 265
O. FERRER, E. ROCA, B. BENJUMEA and J. A. MUÑOZ: <i>The role of the extensional Mesozoic structure during the Pyrenean contractional deformation at the western Parentis basin: constraints from the MARCONI-3 deep seismic reflection profile</i>	266 - 270
O. FERRER, E. ROCA, M. P. A. JACKSON and J. A. MUÑOZ: <i>Effects of Pyrenean contraction on salt structures of the offshore Parentis Basin (Bay of Biscay)</i>	271 - 275
U. FRACASSI, G. MILANO, R. DI GIOVAMBATTISTA and G. VENTURA: <i>Imaging the polarity switch between large seismogenic normal faults in the southern Apennines (Italy)</i>	276 - 280
E. FRANKOWICZ, K. MCCLAY and K. PIETSCH: <i>Synthetic seismic modelling - an application to interpretation of structurally complex areas</i>	281 - 287
N. FRIESE, A. VOLLMRECHT, B. LEISS and O. JACKE: <i>Multi-stage development of Cambrian sedimentary dykes in the Paleoproterozoic granites from the Västervik area (SE Sweden): evidence from macro and microfabrics</i>	288 - 291
Ł. GAGALA: <i>Performance maps – a tool for examination of reliability of procedures for automatic separation of heterogeneous fault/slip and calcite twin data</i>	292 - 296
V. H. GARCÍA and E. O. CRISTALLINI: <i>Numerical modeling of interplay between growth folds and fluvial-alluvial erosion-sedimentation processes</i>	297 - 302
J. GOMEZ-BARREIRO, J. R. MARTÍNEZ-CATALÁN, D. PRIOR, H. R. WENK, I. LONARDELLI, S. VOGEL, F. DÍAZ-GARCÍA, R. ARENAS and S. SÁNCHEZ-MARTÍNEZ: <i>Textural record of an intra-oceanic subduction: the Careón ophiolite (NW Spain)</i>	303 - 304
E. GOMEZ-RIVAS and A. GRIERA: <i>Influence of mechanical anisotropy on shear fracture development</i>	305 - 311
R. GORDON: <i>Komatiitic nickel troughs: inverted rift systems</i>	312 - 314
J. GRABOWSKI, O. BABEK, J. HLADIL, P. PRUNER, P. SCHNABL, T. WERNER, M. GERSL and J. OTAVA: <i>Late Variscan remagnetization of Devonian carbonates in the Moravo-Silesian zone (Czech Republic): implications for dating tectonic deformation</i>	315 - 320
P. GRANADO, J. DE VERA and K. R. MCCRAY: <i>Tectonostratigraphic evolution of the Orange Basin, SW Africa</i>	321 - 328
B. GRASEMANN, D. A. SCHNEIDER, C. IGLESIAS and C. TSCHEGG: <i>Characteristics of low-angle normal faulting in Serfis (Western Cyclades, Greece)</i>	329 - 331
J. C. GRIMMER, X. QI and Z. XU: <i>Magnetofabrics of eclogites and ultramafic rocks from the Chinese Continental Scientific Drilling (CCSD) project: evidence for ultrahigh-pressure (UHP) texture inheritance throughout retrogression</i>	332 - 335
P. P. HERNAIZ-HUERTA, J. A. DÍAZ DE NEIRA, J. GARCÍA-SENZ, E. LOPERA, J. ESCUDER-VIRUETE and A. PÉREZ-ESTAÚN: <i>Contrasting structural styles in SW Dominican Republic as an evidence of strain partitioning in an island arc (Hispaniola)-continent (North America) oblique collisional setting</i>	336 - 341
R. S. HUISMANS and C. BEAUMONT: <i>Structural style of formation of passive margins, insights from dynamical modelling</i>	342 - 348
R. S. HUISMANS and C. BEAUMONT: <i>Structural style of inversion of rifts and passive margins: feedback between mountain building and surface processes</i>	349 - 354
D. IACOPINI and R. CAROSI: <i>Lyapunov method: a tool to describe fabric attractor in non-linear and heterogeneous flows with application to shear zones</i>	355 - 360

D. IACOPINI and R. CAROSI: <i>Some kinematic properties of complex eigenvalues in 3D homogeneous flows</i>	361 - 367
D. IACOPINI, C. FRASSI, R. CAROSI and C. MONTOMOLI: <i>Limits and biases on the three-dimensional vorticity analysis using porphyroblast system: a discussion and application to natural example</i>	368 - 371
C. IGLESEDER, B. GRASEMANN, D. A. SCHNEIDER, I. LENAUER, A. H. N. RICE, K. G. NIKOLAKOPOULOS, P. I. TSOMBOS, M. MÜLLER and K. VOIT: <i>Characteristics of low-angle normal fault formation on Kea (Western Cyclades, Greece)</i>	372 - 374
P. JARA, R. CHARRIER, M. FARÍAS and C. ARRIAGADA: <i>Geometric reconstruction and trishear model of folding: a case study in the western Principal Cordillera, Central Chile (34°15'S – 34°30'S)</i>	375 - 380
L. A. JENSEN, H. LEBIT, S. PATERSON, R. MILLER and R. VERNON: <i>Co-axial refolding and inverted regional metamorphism in the Tonga Formation: Cretaceous accretionary thrust tectonics in the Cascades crystalline core</i>	381 - 387
S. T. JOHNSTON, A. M. MONAHAN, G. GUTIÉRREZ-ALONSO and A. B. WEIL: <i>The significance of bent mountain belts</i>	388 - 392
P. KANJANAPAYONT, M. A. EDWARDS and B. GRASEMANN: <i>The dextral strike-slip Khlong Marui Fault, southern Thailand</i>	393 - 398
M. KERNSTOCKOVA and R. MELICHAR: <i>Numerical paleostress analysis – the limits of automation</i>	399 - 403
M. KNÍŽEK, R. MELICHAR and J. JANEČKA: <i>The stratigraphy separation diagram – an amazing tool for fault analysis</i>	404 - 408
S. KÖVÉR, L. FODOR, K. JUDIK, T. NÉMETH, P. ÁRKAI, K. BALOGH and S. KOVÁCS: <i>Temperature, pressure and age constraints on the very low-grade metamorphism of the Jurassic Telekesoldal Nappe (Inner Western Carpathians) in NE Hungary – a summary</i>	409 - 413
M. KRUMBHOLZ, A. VOLLBRECHT and H. OBERMEYER: <i>Determination of recent stress directions and faults in the Leinetal-Graben; Germany – first experiences with the new NEMR-method</i>	414 - 416
P. LAFUENTE and L. ARLEGUI: <i>Where faults meet: palaeostress analysis at the juncture of the Concad and Teruel faults</i>	417 - 423
X. LEGRAND: <i>Salt-driven, thin-skinned tectonics and inherited deep seated fault-driven thick tectonics in the Dezful Embayment (Zagros, Iran), illustrated by regional 2D geomechanical restoration</i>	424 - 428
I. LENAUER, G. MÖRTL, B. GRASEMANN and C. IGLESEDER: <i>Structural investigations along a low-angle normal fault zone (Kythnos, Greece)</i>	429 - 431
S. LLANA-FÚNEZ, D. BROWN, R. CARBONELL, J. ALVAREZ-MARRÓN and M. SALISBURY: <i>Seismic anisotropy of upper mantle-lower continental crust rocks in Cabo Ortegal (NW Spain) from crystallographic preferred orientation (CPO) patterns</i>	432 - 436
S. LLANA-FÚNEZ and E. H. RUTTER: <i>Direct shear experiments on Solnhofen limestone at high temperature – an experimental analogue of transpression</i>	437 - 439
L. LONGRIDGE, R. L. GIBSON and J. A. KINNAIRD: <i>Dome formation mechanisms in the southwestern Central Zone of the Damara Orogen, Namibia</i>	440 - 444