# CONTENTS

Mike Coward (1945–2003): portrait of a structural geologist vii

Butler, R. W. H., Graham, R. H. & Ries, A. C. Introduction: the deformation of continental crust and Mike Coward’s impact on its understanding 1

Graham, R. H. Mike Coward’s early days: the Lewisian, and what he made of it 9

Wheeler, J. A major high-strain zone in the Lewisian Complex in the Loch Torridon area, NW Scotland: insights into deep crustal deformation 27

Tatham, D. J. & Casey, M. Inferences from shear zone geometry: an example from the Laxfordian shear zone at Upper Badcall, Lewisian Complex, NW Scotland 47

Cosgrove, J. W. The use of shear zones and related structures as kinematic indicators: a review 59

Alsop, G. I. & Holdsworth, R. E. Flow perturbation folding in shear zones 75

Butler, R. W. H., Matthews, S. J. & Morgan, R. K. Structural evolution of the Achnashellach Culmination, southern Moine Thrust Belt: testing the duplex model 103

Holdsworth, R. E., Alsop, G. I. & Strachan, R. A. Tectonic stratigraphy and structural continuity of the northernmost Moine Thrust Zone and Moine Nappe, Scottish Caledonides 121

Vitale, S., Iannace, A. & Mazzoli, S. Strain variations within a major carbonate thrust sheet of the Apennine collisional belt, northern Calabria, southern Italy 143

Treloar, P. J., Vince, K. J & Law, R. D. Two-phase exhumation of ultra high-pressure and medium-pressure Indian Plate rocks from the Pakistan Himalaya 155

Al-Wardi, M. & Butler, R. W. H. Constrictional extensional tectonics in the northern Oman mountains, its role in culmination development and the exhumation of the subducted Arabian continental margin 187

Bond, C. E., Butler, R. W. H. & Dixon, J. E. Co-axial horizontal stretching within extending orogens: the exhumation of HP rocks on Syros (Cyclades) revisited 203

Daly, M. C. Geometry and evolution of the Mesoproterozoic Irumide Belt of Zambia 223

Robertson, A. H. F., Parlak, O., Rızaoğlu, T., Ünlüüngenç, U. C., İnan, N., Taşli, K. & Ustaömer, T. Tectonic evolution of the South Tethyan ocean: evidence from the Eastern Taurus Mountains (Elazığ region, SE Turkey) 231


Acosta, J., Velandia, F., Osorio, J., Lonergan, L. & Mora, H. Strike-slip deformation within the Colombian Andes 303

Cobbold, P. R., Rossello, E. A., Roperch, P., Arriagada, C., Gómez, L. A. & Lima, C. Distribution, timing, and causes of Andean deformation across South America 321

Davison, I. Geology and tectonics of the South Atlantic Brazilian salt basins 345

Stewart, S. A. Salt tectonics in the North Sea Basin: a structural style template for seismic interpreters 361

Mattioni, L., Sassi, W. & Callot, J.-P. Analogue models of basin inversion by transpression: role of structural heterogeneity 397

Sepehr, M. & Cosgrove, J. W. The role of major fault zones in controlling the geometry and spatial organization of structures in the Zagros Fold–Thrust Belt 419

Casini, G., Decandia, F. A. & Tavarnelli, E. Analysis of a mesoscopic duplex in SW Tuscany, Italy: implications for thrust system development during positive tectonic inversion 437

Cooper, M. Structural style and hydrocarbon prospectivity in fold and thrust belts: a global review 447

Sassi, W., Graham, R., Gillcrist, R., Adams, M. & Gomez, R. The impact of deformation timing on the prospectivity of the Middle Magdalena sub-thrust, Colombia 473

Sibson, R. H. Au-quartz mineralization near the base of the continental seismogenic zone

Beach, A. & Smith, R. Structural geometry and development of the Witwatersrand Basin, South Africa

Jolley, S. J., Stuart, G. W., Freeman, S. R., Knipe, R. J., Kershaw, D., McAllister, E., Barnicoat, A. C. & Tucker, R. F. Progressive evolution of a late orogenic thrust system, from duplex development to extensional reactivation and disruption: Witwatersrand Basin, South Africa

Muntean, J. L., Coward, M. P. & Tarnocai, C. A. Reactivated Palaeozoic normal faults: controls on the formation of Carlin-type gold deposits in north-central Nevada

Index