

Contents

Preface	vii
Obituary: Dr Ken Thomson 1966–2007	ix
PETFORD, N. Structure and emplacement of high-level magmatic systems: introduction	1
ABLAY, G. J., CLEMENS, J. D. & PETFORD, N. Large-scale mechanics of fracture-mediated felsic magma intrusion driven by hydraulic inflation and buoyancy pumping	3
THOMSON, K. & SCHOFIELD, N. Lithological and structural controls on the emplacement and morphology of sills in sedimentary basins	31
LEAT, P. T. On the long-distance transport of Ferrar magmas	45
NÉMETH, K., PÉCSKAY, Z., MARTIN, U., GMÉLING, K., MOLNÁR, F. & CRONIN, S. J. Hyaloclastites, peperites and soft-sediment deformation textures of a shallow subaqueous Miocene rhyolitic dome-cryptodome complex, Pálháza, Hungary	63
NÉMETH, K. & CRONIN, S. J. Volcanic craters, pit craters and high-level magma-feeding systems of a mafic island-arc volcano: Ambrym, Vanuatu, South Pacific	87
VINCIGUERRA, S., XIAO, X. & EVANS, B. Constraining melt concentration and strain distribution around basalt dykes in partially molten olivines	103
BUNGER, A. P., JEFFREY, R. G. & DETOURNAY, E. Evolution and morphology of saucer-shaped sills in analogue experiments	109
MAZZARINI, F. & MUSUMECI, G. Hydrofracturing-related sill and dyke emplacement at shallow crustal levels: the Eastern Elba Dyke Complex, Italy	121
DINI, A., WESTERMAN, D. S., INNOCENTI, F. & ROCCHI, S. Magma emplacement in a transfer zone: the Miocene mafic Orano dyke swarm of Elba Island, Tuscany, Italy	131
MORRIS, G. A., KAMADA, M. & MARTINEZ, V. Emplacement of the Etive Dyke Swarm, Scotland: implications of dyke morphology and AMS data	149
STEVENSON, C. T. E., O'DRISCOLL, B., HOLOHAN, E. P., COUCHMAN, R., REAVY, R. J. & ANDREWS, G. D. M. The structure, fabrics and AMS of the Slieve Gullion ring-complex, Northern Ireland: testing the ring-dyke emplacement model	159
BERMÚDEZ, A. & DELPINO, D. H. Concentric and radial joint systems within basic sills and their associated porosity enhancement, Neuquén Basin, Argentina	185
WINTER, C., BREITKREUZ, C. & LAPP, M. Textural analysis of a Late Palaeozoic coherent–pyroclastic rhyolitic dyke system near Burkersdorf (Erzgebirge, Saxony, Germany)	199
Index	223