Contents

Preface vii

Mineralization, hydrocarbons and diagenesis 1

JOHNSTON, J. D., COLLER, D., MILLAR, G. & CRITCHLEY, M. F. Basement structural controls on Carboniferous-hosted base metal mineral deposits in Ireland

SHEARLEY, E., REDMOND, P., KING, M. & GOODMAN, R. Geological controls on mineralization and dolomitization of the Lisheen Zn–Pb–Ag Deposit, Co. Tipperary, Ireland

HOLLIS, C. & WALKDEN, G. The use of burial diagenetic calcite cements to determine the controls upon hydrocarbon emplacement and mineralization on a carbonate platform, Derbyshire, England

VEALE, C. & PARNELL, J. Metal–organic interactions in the Dinantian Solway Basin, UK: inferences for oil migration studies

Carbonate buildups and Waulsortian mud-mounds 51

PICKARD, N. A. H. Evidence for microbial influence on the development of Lower Carboniferous buildups

AHR, W. M. & STANTON, R. J. Jr. Constituent composition of Early Mississippian carbonate buildups and their level-bottom equivalents, Sacramento Mountains, New Mexico

KIRKBY, K. C. & HUNT, D. Episodic growth of a Waulsortian buildup: the Lower Carboniferous Muleshoe Mound, Sacramento Mountains, New Mexico, USA

JEFFERY, D. L. & STANTON, R. J. Jr. Biotic gradients on a homoclinal ramp: the Alamogordo Member of the Lake Valley Formation, Lower Mississippian, New Mexico, USA

SOMERVILLE, I. D., STROGEN, P., JONES, G. LL. & SOMERVILLE, H. E. A. Late Viséan buildups at Kingscourt, Ireland: possible precursors for Upper Carboniferous bioherms

RODRÍGUEZ, S. Development of coral reef-facies during the Viséan at Los Santos de Maimona, SW Spain

Siliciclastic rocks 65

MORENO, C., SIERRA, S. & SÁEZ, R. Evidence for catastrophism at the Famennian–Dinantian boundary in the Iberian Pyrite Belt

MAGUIRE, K., THOMPSON, J. & GOWLAND, S. Dinantian depositional environments along the northern margin of the Solway Basin

GRAHAM, J. R. Dinantian river systems and coastal zone sedimentation in northwest Ireland

Carbonate platforms and ramps 83

RIZZI, G. & BRAITHWAITE, C. J. R. Cyclic emersion surfaces and channels within Dinantian limestones hosting the giant Navan Zn–Pb deposit, Ireland

HORBURY, A. D. & ADAMS, A. E. Microfacies associations in Asbian carbonates: an example from the Urswick Limestone Formation of the southern Lake District, northern England
**CONTENTS**

GALLAGHER, S. J. The stratigraphy and cyclicity of the late Dinantian platform carbonates in parts of southern and western Ireland 239

KELLY, J. G. Initiation, growth and decline of a tectonically controlled Asbian carbonate ramp: Cuilcagh Mountain area, NW Ireland 253

STROGEN, P., SOMERVILLE, I. D., PICKARD, N. A. H., JONES, G. LL. & FLEMING, M. Controls on ramp, platform and basinal sedimentation in the Dinantian of the Dublin Basin and Shannon Trough, Ireland 263

VANSTONE, S. The influence of climatic change on exposure surface development: a case study from the Late Dinantian of England and Wales 281

**Basinal facies**

GURSKY, H.-J. Siliceous rocks of the Culm basin, Germany 303

BELKA, Z., SKOMPSKI, S. & SOBON-PODGORSKA, J. Reconstruction of a lost carbonate platform on the shelf of Fennosarmatia: evidence from Viséan polymictic debrites, Holy Cross Mountains, Poland 315

NAYLOR, D., SEVASTOPULO, G. D. & SLEEMAN, A. G. Contemporaneous erosion and reworking within the Dinantian of the South Munster Basin 331


**Faunas, floras and biostratigraphy**

MAKHLINA, M. KH. Cyclic stratigraphy, facies and fauna of the Lower Carboniferous (Dinantian) of the Moscow Synecline and Voronezh Antecline 359

RUKINA, G. A. Sequence biostratigraphy of the Tournaisian–Lower Viséan rocks of the Russian Platform 365

JONES, G. LL. & SOMERVILLE, I. D. Irish Dinantian biostratigraphy: practical applications 371

LEBEDEV, O. A. Fish assemblages in the Tournaisian–Viséan environments of the East European Platform 387

IVANOV, A. The Early Carboniferous chondrichthyans of the South Urals, Russia 417

HARPER, D. A. T. & JEFFREY, A. L. Mid-Dinantian brachiopod biofacies from western Ireland 427

SMITH, J. A palynofacies analysis of the Dinantian (Asbian) Glenade Sandstone Formation of the Leitrim Group, northwest Ireland 437

Index 449