

CONTENTS OF VOLUME 48

	<i>page</i>
M. J. Barker see N. T. J. Hollingworth and M. J. Barker	347
M. S. Benzagouta and M. R. Lee New evidence for the origin of distinctive quartz overgrowth textures in the Raisby Formation (Zechstein carbonate), north-east England	409
D. Q. Bowen, D. B. Smith and G. A. Sykes The age of the Easington Raised Beach, County Durham	415
D. Q. Bowen and G. A. Sykes <i>Discussion of</i> "The correlation of the Speeton Shell Bed, Filey Bay, Yorkshire, to an oxygen isotope stage"	463
T. J. Bralower Lower Cretaceous calcareous nannofossil biostratigraphy of a North Sea borehole: implications for Boreal Cretaceous stratigraphy	421
A. Brandon, M. G. Sumbler and H. C. Ivimey-Cook A revised lithostratigraphy for the Lower and Middle Lias (Lower Jurassic) east of Nottingham, England	121
R. L. Brenner and O. J. Martinsen The Fossil Sandstone — a shallow marine sand wave complex in the Namurian of Cumbria and North Yorkshire, England	149
C. H. C. Brunton and J. W. Tilsley A check list of brachiopods from Treak Cliff, Derbyshire, with reference to other Dinantian (Lower Carboniferous) localities	287
J. R. Davies Karstification and pedogenesis on a late Dinantian carbonate platform, Anglesey, North Wales	297
K. C. Dunham see B. L. Hodge and K. C. Dunham	323
T. D. Ford see D. G. Quirk, T. D. Ford, J. A. King, I. L. Roberts, R. B. Postance and I. Odell	99
M. J. Garratt see R. B. Rickards and M. J. Garratt	41
S. Gowland and J. B. Riding Stratigraphy, sedimentology and palaeontology of the Scarborough Formation (Middle Jurassic) at Hundale Point, North Yorkshire	375
A. Grant see R. Middleton and A. Grant	75
P. Gutteridge The origin and significance of the distribution of shelly macrofauna in late Dinantian carbonate mud mounds of Derbyshire	23
P. Gutteridge Depositional environments and palaeogeography of the Station Quarry Beds (Brigantian), Derbyshire, England	189
B. L. Hodge and K. C. Dunham Clastics, coals, palaeodistributaries and mineralisation in the Namurian Great Cyclothem, Northern Pennines and Northumberland Trough	323

CONTENTS OF VOLUME 48 (continued)

	<i>page</i>
D. W. Holliday see S. A. Smith and D. W. Holliday	435
N. T. J. Hollingworth see A. B. Smith and N. T. J. Hollingworth	47
N. T. J. Hollingworth and M. J. Barker Gastropods from the Upper Permian Zechstein (Cycle 1) reef of north-east England	347
H. C. Ivimey-Cook see A. Brandon, M. G. Sumbler and H. C. Ivimey-Cook	121
H. C. Ivimey-Cook and J. H. Powell Late Triassic and early Jurassic biostratigraphy of the Felixkirk Borehole, North Yorkshire	367
P. C. Jackson The Dinantian stratigraphy of north-west Devon	447
R. Kanaris-Sotiriou, D. Millward and C. C. Rundle The Great Whinscale Dacite - an enigmatic lava flow from the Borrowdale Volcanic Group, English Lake District	393
J. D. Kantorowicz Lateral and vertical variations in pedogenesis and other early diagenetic phenomena Middle Jurassic Ravenscar Group, Yorkshire	61
J. A. King see D. G. Quirk, T. D. Ford, J. A. King, I. L. Roberts, R. B. Postance and I. Odell	99
R. W. O'B. Knox Ryazanian to Barremian mineral stratigraphy of the Speeton Clay in the southern North Sea Basin	255
R. W. O'B. Knox <i>Reply to J. W. Neale</i> . Discussion of "Ryazanian to Barremian mineral stratigraphy of the Speeton Clay in the U.K. southern North Sea Basin"	461
M. R. Lee see M. S. Benzagouta and M. R. Lee	409
O. J. Martinsen see R. L. Brenner and O. J. Martinsen	149
R. Middleton and A. Grant Heavy metals in the Humber estuary: <i>Scrobicularia</i> clay as a pre-industrial datum	75
D. Millward see R. Kanaris-Sotiriou, D. Millward and C. C. Rundle	393
J. W. Neale <i>Discussion of</i> "Ryazanian to Barremian mineral stratigraphy of the Speeton Clay in the U.K. southern North Sea Basin"	461
I. Odell see D. G. Quirk, T. D. Ford, J. A. King, I. L. Roberts, R. B. Postance and I. Odell	99
R. B. Postance see D. G. Quirk, T. D. Ford, J. A. King, I. L. Roberts, R. B. Postance and I. Odell	99
J. H. Powell see H. C. Ivimey-Cook and J. H. Powell	367
D. G. Quirk, T. D. Ford, J. A. King, I. L. Roberts, R. B. Postance and I. Odell Enigmatic boulders and syn-sedimentary faulting in the Carboniferous Limestone of the Isle of Man	99
R. B. Rickards and M. J. Garratt Přídolí grapolites from the Humevale Formation at Ghin Ghin and Cheviot, Victoria, Australia	41

CONTENTS OF VOLUME 48 (continued)

	<i>page</i>
J. B. Riding see S. Gowland and J. B. Riding	375
N. J. Riley Stratigraphy of the Worston Shale Group, Dinantian, Craven Basin, north-west England	163
I. L. Roberts see D. G. Quirk, T. D. Ford, J. A. King, I. L. Roberts, R. B. Postance and I. Odell	99
D. E. Rogers and G. W. Stuart A seismic refraction study of the upper crustal structure of the Derbyshire Dome	265
M. Romano and D. A. Spears Bentonites from the Horton Formation (Upper Silurian) of Ribblesdale, Yorkshire	277
M. Romano and M. A. Whyte <i>Selenichnites</i> , a new name for the ichnogenus <i>Selenichnus</i> Romano & Whyte, 1987	221
C. C. Rundle see R. Kanaris-Sotiriou, D. Millward and C. C. Rundle	393
A. B. Smith and N. T. J. Hollingworth Tooth structure and phylogeny of the Upper Permian echinoid <i>Miocidaris keyserlingi</i>	47
D. B. Smith see D. Q. Bowen, D. B. Smith and G. A. Sykes	415
S. A. Smith and D. W. Holliday The sedimentology of the Middle and Upper Border Groups (Viséan) of the Stonehaugh Borehole, Northumberland	435
D. A. Southwood New bryozoan taxa from the Upper Permian Zechstein reef in N.E. England	33
D. A. Spears see M. Romano and D. A. Spears	277
E. Spinner see N. Turner and E. Spinner	81
E. G. Spinner <i>Tricontactispora</i> , a new genus of megaspores from the Namurian of the southern Pennines, Derbyshire, England	143
G. W. Stuart see D. E. Rogers and G. W. Stuart	265
M. G. Sumblar see A. Brandon, M. G. Sumblar and H. C. Ivimey-Cook	121
G. A. Sykes see D. Q. Bowen, D. B. Smith and G. A. Sykes	415
G. A. Sykes see D. Q. Bowen and G. A. Sykes	463
J. W. Tilsley see C. H. C. Brunton and J. W. Tilsley	287
N. Turner and E. Spinner Palynological evidence for the age of the Coal Measures of the Titterstone Cleve Coalfield, Shropshire, England	81
J. J. Walsh and J. Watterson New methods of fault projection for coalmine planning	209
J. Watterson see J. J. Walsh and J. Watterson	209

CONTENTS OF VOLUME 48 (continued)

	<i>page</i>
F. Whitham	
The stratigraphy of the Upper Cretaceous Ferriby, Welton and Burnham formations north of the Humber, north-east England	227
M. A. Whyte see M. Romano and M. A. Whyte	221
P. Wignall	
Depositional history and palaeoecology of the Oxfordian/Kimmeridgian boundary beds at South Ferriby, South Humberside	197
A. A. Wilson	
The Mercia Mudstone Group (Trias) of the East Irish Sea Basin (<i>Presidential Address</i>)	1
S. J. Wilson	
The correlation of the Speeton Shell Bed, Filey Bay, Yorkshire, to an oxygen isotope stage	223
S. J. Wilson	
<i>Reply to D. Q. Bowen and G. A. Sykes.</i> Discussion of "The correlation of the Speeton Shell Bed, Filey Bay, Yorkshire, to an oxygen isotope stage"	464
Annual Report for 1989	115
Annual Report for 1990	339
Field Meeting Report 1989	119
Medal Presentations 1989, 1990	343
Obituaries	345, 466
Society Activities 1989	117
Society Activities 1990	342
Index for Volume 48	467