Short curriculum vitae with full publication list
Rob Gawthorpe, September 2021

Personal information

First name, Surname:	Gawthorpe, Robert Leslie		
Date of birth:	17.11.1960	Sex:	Male
Nationality:	British		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	ORCID 0000-0002-4352-6366 ResearcherID L-7598-2016		
URL for personal website:	http://www.uib.no/en/persons/Robert.Gawthorpe		

Education

Year	Faculty/department - University/institution - Country
1985	PhD disputation date: 10.1986 Department of Earth Sciences, University of Leeds, UK
1982	BSc 1st class, Geological Sciences, Department of Earth Sciences, University of Leeds, UK

Positions - current and previous

Year	Job title – Employer - Country
2018 - 2021	VISTA Professor, Department of Earth Science, University of Bergen, Bergen, Norway
2016-2017	Visiting Professor, Department of Geology and Geological Engineering, Colorado School of Mines, USA
2010-	Professor, Department of Earth Science, University of Bergen, Bergen, Norway
2000–2010	Professor of Sedimentology and Tectonics, University of Manchester, Manchester, UK
1998–2000	Reader in Geology, University of Manchester, Manchester, UK
1996–1998	Senior Lecturer in Geology, University of Manchester, Manchester, UK
1989–1996	Lecturer in Geology, University of Manchester, Manchester, UK
1988–1989	Elf Aquitaine Research Fellow, University of Durham, Durham, UK
1985–1988	Sedimentologist, BP Exploration Company Limited, London, UK

Project management experience (as Project Manager, running from 2015 to present)

Continuous research council and industry funding in UK and Norway for over 30 years. Research focuses on basin analysis, structural style and evolution of sedimentary basins, sedimentary and stratigraphic evolution of depositional systems, and application to subsurface studies. Recent major projects are co-funded by research councils and subsurface industry, typically employing 3-5 PhDs, 2-3 postdocs and involve several international academic and industry partners. Projects use a combination of analysis of modern systems, outcrop and subsurface (well and seismic) studies of ancient sedimentary basins, and numerical modelling of tectonics and surface processes. Research advances include:

- Landscape and sedimentary response to normal fault and rift basin evolution.
- 3D evolution of normal faults, fault arrays and rift depocentres.
- Evolution of salt-controlled depocentres and deep-water depositional system along rifted margins.

- Seismic geomorphology of deep-water depositional systems in rifts and salt-related minibasins.
- Variability of stratigraphic sequences resulting from structural and depositional controls.
- Relative sea-level control on early diagenetic evolution of shallow marine/coastal clastic deposits.
- Application of ground penetrating radar and digital outcrop techniques to fieldwork and reservoir characterisation.

Year	Funder – Project – Amount
2021-	NFR (KPI) ZechTech project (326965), 20.4m NOK
2020 -	NFR (KPI), DeepRift project (308805), 33m NOK
2019-	Akademia agreement, High-displacement normal fault evolution, 4.5m NOK
2018-2021	VISTA Professorship
2017-2018	IODP Expedition 381 (co-proponent) and led sedimentology and lithostratigraphy during both offshore phases
2016-2020	VISTA, Basement and Permo-Triassic rifting in the northern North Sea, 3.5m NOK
2016-2020	NFR (PETROMAKS 2), Syn-Rift Systems project (255229), 26m NOK
2015-2020	Equnior, Turbidites, tectonics and topography (T^3), 6.7m NOK
2015-2018	VISTA, Fault network topology, 3m NOK
2013-2015	Shell Norge, Tectono-sedimentary evolution: Western Barents Sea, 3.7m NOK
2012-2016	NFR (PETROMAKS), MultiRift project (215591), 24m NOK
2012-2015	Shell Norge, Tectono-sedimentary evolution: Lofoten Margin, 3.7m NOK
2012-2015	VISTA, Carbonate-evaporite-clasitc systems in rift basins, 3m NOK
2011-2015,	Total, Salt-influenced Rifting, Central North Sea, 3.1m NOK

Supervision of students

Lead supervisor of 40 graduated PhD students and supervisor of a total of 70 graduated PhD students. Currently supervising 7 PhD students, 4 as lead supervisor.

Master's students	Ph.D. students	Post-docs	University/institution - Country
32	25	19	Department of Earth Science, University of Bergen, Bergen, Norway
80+	45	18	University of Manchester, Manchester, UK

Other relevant professional experiences (since 2010)

Year	Description - Role
2021-	Scientific Advisory Committee: Irish Centre for Research in Applied Geosciences
2015	Member of Energy Strategy Committee, Faculty of Mathematics and Natural Sciences, University of Bergen
2015-2017	Department representative, Petroleum Technology programme board, University of Bergen
2013	Member of Natural Environment Research Council, UK (NERC), Oil and Gas Doctoral College assessment panel
2010-2013	Member or Society for Sedimentary Geology (SEPM) Pettijohn Medal Committee
2008	Research Assessment Exercise (UK) 2008, Specialist Advisor, Unit of Assessment 17

2006–2010	Member of NERC, Peer Review College
1990–2010	Head of the Basin Studies and Petroleum Geoscience Research Group, University of Manchester, UK
	Fellow of the Geological Society of London, Member of the Norwegian Geological Society (Norsk Geologisk Forening), Member of the International Association of Sedimentologists, Member of the Society for Sedimentary Geology (SEPM), Member or the American Geophysical Union
	Regular reviewer for proposals from national funding agencies in Europe, USA and UK
	Regular external assessor for academic promotions and tenure

Track record

PUBLICATIONS

Over 190 peer-reviewed publications in peer-reviewed journals and special publications. See full publication list. Summary of citations as of September 2021 is given below.

	Statistics (September 2021)
Google	No. of publications: 200, No. of citations 7881, h-index = 48
Scopus	No. of publications: 200, No. of citations 8332, h-index = 51
Web of Science	No. of publications: 164, No. of citations 6596, h-index = 47

FELLOWSHIPS, AWARDS AND PRIZES

2018 VISTA Professorship, VISTA/Norwegian Academy of Science and Letters, Norway

2005 Distinguished Lecturer, American Association of Petroleum Geologists, USA

1993 Lyell Fund; Geological Society of London, UK

TEACHING ACTIVITIES

2010- Undergraduate and graduate courses in: sedimentology, seismic and sequence stratigraphy, seismic interpretation, introduction to petroleum geoscience, and fieldwork training.
Department of Earth Science, University of Bergen.

1989-2010 Undergraduate and graduate courses in: sedimentology and stratigraphy, sequence stratigraphy, basin analysis, introductory and graduate field courses, undergraduate mapping projects. School of Earth, Atmospheric and Environmental Sciences, University of Manchester, UK.

INVITED PRESENTATIONS (since 2014)

2018 AGU Fall meeting, Washington, USA

2018 FORCE Seminar, Advances in Sedimentology and Stratigraphy, Stavanger

2017 GeoPRISMS Rift Initiation and Evolution Symposium, Albuquerque, USA

2016 Rifts III Meeting, Geological Society of London, UK

2014 William Smith Meeting, Geological Society of London, UK

RESEARCH EXPEDITIONS

I have led a number of field expeditions around the world while working in industry and as an academic including: Basin and Range Province USA; Suez rift, Egypt; Corinth and Sperchios rifts, Greece. These studies resulted in major advances in understanding the structural and sedimentary evolution of rift basins. I was a

proponent of IODP Expedition 381; Active Corinth Rift Development, and led the lithostratigraphic and sedimentological analysis of both the offshore and onshore legs.

MAJOR CONTRIBUTIONS TO THE EARLY CAREERS OF EXCELLENT RESEARCHERS

I have supervised 70 PhD students and a large number of postdoctoral researchers many of whom are now leading academics or senior geoscientists in industry, including Chris Jackson (University of Manchester); Tiago Alves (University of Cardiff), Peter Talling (University of Durham); Ian Sharp (Equinor); Chris Leppard (Equinor); Bryan Ritchie (BP). Several of my students have won prizes, including Best Paper at the EAGE Annual Meeting, AAPG/SEPM best student oral or poster presentations (and several runners up), Midland Valley Structural Geology Prize, and Young Explorer of the Year Award, Petroleum Group, Geological Society of London. As part of the VISTA Professorship I developed the successful VISTA Visitor Programme that provided support for early career researchers undertaking PhDs and postdocs to visit Norway and undertake research collaboration during 2018 and 2019.

FULL PUBLICATION LIST (September 2021)

Pub No.

193 ELLIOTT, G.M., JACKSON, C. A-L., GAWTHORPE, R.L., WILSON, P., SHARP, I.R. AND MICHELSEN, L. 2021. Tectono-stratigraphic development of a salt-influenced rift margin; Halten Terrace, offshore Mid-Norway. Basin Research (accepted for publication)

192 WRONA, T., PAN, I., BELL, R.E., GAWTHORPE, R.L., FOSSEN, H. AND BRUNE, S. 2021. 3D seismic interpretation with deep learning: A brief introduction. The Leading Edge, 40, https://doi.org/10.1190/tle40070524.1

191 MASIERO, I., BURGESS, P., HOLLIS, C., MANIFOLD, L., GAWTHORPE, R.L., LECOMTE, I., MARSHALL, J. AND ROTEVATN, A. 2021. Syn-rift carbonate platforms in space and time: testing and refining conceptual models using stratigraphic and seismic numerical forward modelling. In: Hendry, J., Burgess, P., Hunt, D., Janson, X. and Zampetti, V. (eds) *Seismic Characterization of Carbonate Platforms and Reservoirs*, Geological Society of London, Special Publication 509, https://doi.org/10.1144/SP509-2019-217.

190 AMEZCUA, N., GAWTHORPE, R.L, AND MARSHALL, J. 2021. Lacustrine carbonate lithofacies characterization, paleontological content and depositional processes in the Mayrán Basin System. Journal of South American Earth Sciences, 111, https://doi.org/10.1016/j.jsames.2021.103451.

189 NYBERG, B., HELLAND-HANSEN, W., TILLMANS, F., GAWTHORPE, R.L., SANSBAKKEN, P. 2021. Assessing First-order BQART Estimates for Ancient Source-to-Sink Mass Budget Calculations. Basin Research 33, DOI10.1111/bre.12563.

188 TILLMANS, F., GAWTHORPE, R.L, JACKSON, C.A.L. AND ROTEVATN, A. 2021. Syn-rift sediment gravity flow deposition on a Late Jurassic fault-terraced slope, northern North Sea. Basin Research 33, DOI10.1111/bre.12538.

187 KRISTENSEN, T., ROTEVATN, A., MARVIK, M., HENSTRA, G.A., GAWTHORPE, R.L., RAVNÅS, R. 2020. Quantitative analysis of fault-and-fold growth in a transtensional basin: the Sørvestsnaget Basin, Western Barents Sea. In: Chiarella, D., Archer, S. G., Howell, J. A., Jackson, C. A.-L., Kombrink, H. & Patruno, S. (eds) *Cross-Border Themes in Petroleum Geology II: Atlantic Margin and Barents Sea*. Geological Society, London, Special Publications, 495, https://doi.org/10.1144/SP495-2020-123

186 FAZLIKHANI, H., AAGOTNES, S.S., REFVEM, M.A., HAMILTON-WRIGH, J., BELL, R.E., FOSSEN, H., GAWTHORPE, R.L., JACKSON, C.A-L. AND ROTEVATN, A. 2020. Strain migration during multiphase extension, Stord Basin, northern North Sea rift. Basin Research, https://doi.org/10.1111/bre.12522.

185 WRONA, T., FOSSEN, H., LECOMTE, I., HAUG EIDE, C., GAWTHORPE, R.L., 2020. Seismic expression of shear zones: Insights from 2-D Point-Spread-Function-based convolution modelling. Journal of Structural Geology, 140. https://doi.org/10.1016/j.jsg.2020.104121.

184 WIEST, J.D., WRONA, T., BAUCK M.S., FOSSEN, H., GAWTHORPE, R.L., OSMUNDSEN, P.T. AND FALEIDE, J.I. 2020. From Caledonian Collapse to North Sea Rift: The Extended History of a Metamorphic Core Complex. Tectonics, 39, e2020TC006178. https://doi.org/10.1029/2020TC006178

183 MUNOZ-BARRERA, J.M., ROTEVATN, A., GAWTHORPE, R.L., HENSTRA, G.A. AND KRISTENSEN, T.B. 2020. The role of structural inheritance in the development of high-displacement crustal faults in the necking domain of rifted margins: The Klakk Fault Complex, Frøya High, offshore mid-Norway. Journal of Structural Geology, 140. https://doi.org/10.1016/j.jsg.2020.104163

182 HOWLETT, D.M., GAWTHORPE, R.L., GE, Z.Y., ROTEVATN, A. AND JACKSON, C.A.L. Turbidites, topography and tectonics: Evolution of submarine channel-lobe systems in the salt-influenced Kwanza Basin, offshore Angola. Basin Research, https://doi.org/10.1111/bre.12506.

181 CLARINGBOULD, J.S., BELL, R.E., JACKSON, C.A.L., GAWTHORPE, R.L. AND ODINSEN, T. 2020. Pre-breakup Extension in the Northern North Sea Defined by Complex Strain Partitioning and Heterogeneous Extension Rates. Tectonics, 39, https://doi.org/10.1029/2019tc005924.

180 GE, Z.Y., GAWTHORPE, R.L., ZIJERVELD, L. AND OLUBOYO, A.P. 2020. Spatial and temporal variations in minibasin geometry and evolution in salt tectonic provinces: Lower Congo Basin, offshore Angola. Basin Research, https://doi.org/10.1111/bre.12486.

179 JACKSON, C.A.L., WHIPP, P.S., GAWTHORPE, R.L. AND LEWIS, M.M. 2020. Structure and kinematics of an extensional growth fold, Hadahid Fault System, Suez Rift, Egypt. Solid Earth, 11, 1027-1051, https://doi.org/10.5194/se-11-1027-2020.

178 CHEN, H.H., WOOD, L.J. AND GAWTHORPE, R.L. 2020. Sediment dispersal and redistributive processes in axial and transverse deep-time source-to-sink systems of marine rift basins: Dampier Sub-basin, Northwest Shelf, Australia. Basin Research, https://doi.org/10.1111/bre.12462.

177 WATKINS, S.E., WHITTAKER, A.C., BELL, R.E., BROOKE, S.A.S., GANTI, V., GAWTHORPE, R.L., MCNEILL, L.C. AND NIXON, C.W. 2020. Straight from the source's mouth: controls on field-constrained sediment export across the entire active Corinth Rift, central Greece. Basin Research. DOI: 10.1111/bre.12444.

176 GEURTS, A.H., WHITTAKER, A.C., GAWTHORPE, R.L. AND COWIE, P.A. 2020. Transient landscape and stratigraphic responses to drainage integration In the actively extending central Italian Apennines. Geomorphology. DOI: 10.1016/j.geomorph.2019.107013.

175 MURAVCHIK, M., HENSTRA, G.A., ELIASSEN, G.T., GAWTHORPE, R.L., LEEDER, M.R., HARALAMBOS, K., SKOURTSOS, E. AND ANDREWS, J.E. 2019. Deep-water sediment transport patterns and basin floor topography in early rift basins: Plio-Pleistocene syn-rift of the Corinth Rift, Greece. Basin Research, 32, 1194-1222. DOI: 10.1111/bre.12423.

174 BARRETT, B.J., GAWTHORPE, R.L., COLLIER, R.E.LL., HODGSON, D.M. AND CULLEN, T.M. 2019. Syn-rift delta interfan successions: Archives of sedimentation and basin evolution. The Depositional Record, 6, 117-143. DOI: 10.1002/dep2.95.

173 PHILLIPS, T.B., FAZLIKHANI, H., GAWTHORPE, R.L., FOSSEN, H., JACKSON, C.A-L., BELL, R.E., FALEIDE, J.I. AND ROTEVATN, A. 2019. The influence of structural inheritance and multiphase extension on rift development, the northern North Sea. Tectonics, doi:10.1029/2019tc005756

172 CULLEN, T.M., COLLIER, R.E.LL., GAWTHORPE, R.L., HODGSON, D.M. AND BARRETT, B.J. 2019. Axial and transverse deep-water sediment supply to syn-rift fault terraces: insights from the West Xylokastro Fault Block, Gulf of Corinth, Greece. Basin Research. https://doi.org/10.1111/bre.12416

171 PECKOVER, E.N., ANDREWS, J.E., LEEDER, M.R., ROWE, P.J., MARCA, A., SAHY, D., NOBLE, S. AND GAWTHORPE, R.L. 2019. Coupled stalagmite – alluvial fan response to the 8.2 ka event and early Holocene palaeoclimate change in Greece. Palaeogeography, Palaeoclimatology, Palaeoecology, 532, https://doi.org/10.1016/j.palaeo.2019.109252.

170 OSAGIEDE, E.E., ROTEVATN, A. GAWTHORPE, R.L., KRISTENSEN, T.B., JACKSON, C.A-L., AND MARSH, N. 2019. Influence of pre-existing intra-basement shear zones on the development of non-colinear rift fault network, Utsira High – Heimdal Terrace, North Sea. Journal of Structural Geology, 130. https://doi.org/10.1016/j.jsg.2019.103908

169 GE, Z., GAWTHORPE, R.L., ROTEVATN, A., ZIJERVELD, L., JACKSON, C.A-L., OLUBOYO, A. 2019. Minibasin depocentre migration during diachronous salt welding, offshore Angola. Basin Research. https://doi.org/10.1111/bre.12404

168 GE, Z., ROSENAU, M., WARSITZKA, M. AND GAWTHORPE, R.L. 2019. Progressive tilting of salt-bearing continental margins controls thin-skinned deformation. Geology, 47, https://doi.org/10.1130/G46485.1.

167 GE, Z., ROSENAU, M., WARSITZKA, M. AND GAWTHORPE, R.L. 2019. Overprinting translational domains in passive margin salt basins: insights from analogue modelling. Solid Earth, 10, 1283-1300. h ttps://doi.org/10.5194/se-10-1283-2019.

166 BARRETT, B.J., COLLIER, R.E.LL., HODGSON, D.M., GAWTHORPE, R.L., DORRELL, R.M. AND CULLEN, T.M. 2019. Quantifying faulting and base level controls on syn-rift sedimentation using stratigraphic architectures of coeval Early-Middle Pleistocene fan deltas in Lake Corinth, Greece. Basin Research. DOI:10.1111/bre.12356.

165 HENSTRA, G.A., KRISTENSEN, T.B., ROTEVATN, A., AND GAWTHORPE, R.L. How do pre-existing normal faults influence rift geometry? A comparison of adjacent basins with contrasting underlying structure on the Lofoten Margin, Norway. Basin Research. DOI:10.1111/bre.12358

164 HOWLETT, D.M., GE, Z., NEMEC, W., GAWTHORPE, R.L., ROTEVATN, A. AND JACKSON, C.A-L. 2019. Response of unconfined turbidity current to deep-water thrust fold-belt topography: orthogonal incidence on solitary and segmented folds. Sedimentology, doi: 10.1111/sed.12602

163 WRONA. T., FOSSEN, H., GAWTHORPE, R.L., BELL, R.E., JACKSON, C.A-L., MAGEE, C. AND FALEIDE, J.I. 2019. 3-D seismic images of an extensive igneous sill in the lower crust. Geology, 47, 729-733. https://doi.org/10.1130/G46150.1

162 ZIMMER, E., HOWELL, J., SCHOFIELD, N., GAWTHORPE, R.L. 2019. Seismic geomorphology linked to sequence stratigraphy of an Eocene delta in the Outer Moray Firth, UKCS. Marine and Petroleum Geology,

104, 150-167. https://doi.org/10.1016/j.marpetgeo.2019.03.014.

161 PICHEL, L.M., FINCH, E., GAWTHORPE, R.L. 2019. The Impact of Pre-Salt Rift Topography on Salt Tectonics: A Discrete-Element Modelling Approach. Tectonics, 38, 1466-1488. https://doi.org/10.1029/2018TC005174

160 MCNEILL, L.C., SHILLINGTON, D.J., CARTER, G.D.O., EVEREST, J.D., GAWTHORPE, R.L., MILLER, C., PHILLIPS, M.P., COLLIER, R.E.LL., CVETKOSKA, A., DE GELDER, G., DIZ, P., DOAN, M.-L., FORD, M., GERAGA, M., GILLESPIE, J., HEMELSDAËL, R., HERRERO-BERVERA, E., ISMAIEL, M., JANIKIAN, L., KOULI, K., LE BER, E., LI, S., MACHLUS, M.L., MAFFIONE, M., MAHONEY, C., MICHAS, G., NIXON, C.W., OFLAZ, S.A., OMALE, A.P., PANAGIOTOPOULOS, K., PECHLIVANIDOU, S., SAUER, S., SEGUIN, J., SERGIOU, S., ZAKHAROVA, N.V., AND GREEN, S. 2019. High-resolution record reveals climate-driven environmental and sedimentary changes in an active rift. Scientific Reports, 9, 6519. https://doi.org/10.1038/s41598-019-40022-w.

159 MCNEILL, L.C., SHILLINGTON, D.J., CARTER, G.D.O.,EVEREST, J.D., LE BER, E., COLLIER, R.E.LL., CVETKOSKA, A., DE GELDER, G., DIZ, P., DOAN, M.-L., FORD, M., GAWTHORPE, R.L., GERAGA, M., GILLESPIE, J., HEMELSDAËL, R., HERRERO-BERVERA, E., ISMAIEL, M., JANIKIAN, L., KOULI, K., LI, S., MACHLUS, M.L., MAFFIONE, M., MAHONEY, C., MICHAS, G., MILLER, C., NIXON, C.W., OFLAZ, S.A., OMALE, A.P., PANAGIOTOPOULOS, K., PECHLIVANIDOU, S., PHILLIPS, M.P., SAUER, S., SEGUIN, J., SERGIOU, S., AND ZAKHAROVA, N.V., 2019. Corinth Active Rift Development. Proceedings of the International Ocean Discovery Program, 381: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.381.101.2019.

158 SHILLINGTON, D.J., MCNEILL, L.C., CARTER, G.D.O.,EVEREST, J.D., LE BER, E., COLLIER, R.E.LL., CVETKOSKA, A., DE GELDER, G., DIZ, P., DOAN, M.-L., FORD, M., GAWTHORPE, R.L., GERAGA, M., GILLESPIE, J., HEMELSDAËL, R., HERRERO-BERVERA, E., ISMAIEL, M., JANIKIAN, L., KOULI, K., LI, S., MACHLUS, M.L., MAFFIONE, M., MAHONEY, C., MICHAS, G., MILLER, C., NIXON, C.W., OFLAZ, S.A., OMALE, A.P., PANAGIOTOPOULOS, K., PECHLIVANIDOU, S., PHILLIPS, M.P., SAUER, S., SEGUIN, J., SERGIOU, S., AND ZAKHAROVA, N.V., 2019. Expedition 381 Preliminary Report: Corinth Active Rift Development. College Station, TX, International Ocean Discovery Program. https://doi.org/10.14379/iodp.pr.381.2019.

157 PECHLIVANIDOU S., COWIE, P.A., DUCAUX, G, NIXON, C.W., GAWTHORPE, R.L. AND SALLES, T. 2019. Tipping the balance: shifts in sediment production in an active rift setting. Geology, 47, 259-262. https://doi.org/10.1130/G45589.1

156 LENHART, A., JACKSON, C. A-L., BELL, R.E., DUFFY, O.B., GAWTHORPE, R.L., FOSSEN, H. 2019. Structural architecture and composition of crystalline basement offshore west Norway. Lithosphere, 11, 273-293. https://doi.org/10.1130/L668.1

155 JACKSON, C. A-L., ELLIOTT, G.M., ROYCE-ROGERS, E., GAWTHORPE, R.L., AAS, T.E. 2018. Salt thickness and composition influence rift structural style, northern North Sea, offshore Norway. Basin Research, 31, 514–538. https://doi.org/10.1111/bre.12332.

154 WRONA, T., PAN, I., GAWTHORPE, R.L. AND FOSSEN, H. 2018 Seismic facies analysis using machine learning. GEOPHYSICS, 83, O83-O95. DOI: 10.1190/GEO2017-0595.1

153 WATKINS, S.E., WHITTAKER, A.C., BELL, R.E., MCNEILL, L.C., GAWTHORPE, R.L., BROOKE, S.A.S. AND NIXON, C.W. (2018) Are landscapes buffered to high-frequency climate change? A comparison of sediment fluxes and depositional volumes in the Corinth rift, central Greece, over the past 130 k.y. Geological Society of America Bulletin. https://doi.org/10.1130/B31953.1

152 NIXON, C.W., VAAGAN, S., SANDERSON, D.J. AND GAWTHORPE, R.L. (2018) Spatial distribution of damage and strain within a normal fault relay at Kilve, UK. Journal of Structural Geology. https://doi.org/10.1016/j.jsg.2018.10.016

151 DENG, C., GAWTHORPE, R.L., FOSSEN, H. AND FINCH, E. (2018) How Does the Orientation of a Preexisting Basement Weakness Influence Fault Development During Renewed Rifting? Insights From Three-Dimensional Discrete Element Modeling. Tectonics, 37, 2221-2242. DOI: 10.1029/2017TC004776

150 HIRANI, J., BASTESEN, E., BOYCE, A., CORLETT, H.J., EKER, A., GAWTHORPE, R.L., HOLLIS, C., JOHN, C.M., KORNEVA, I. AND ROTEVATN, A. (2018) Structural controls on non fabric-selective dolomitization within rift-related basin-bounding normal fault systems: Insights from the Hammam Faraun Fault Block, Gulf of Suez, Egypt. Basin Research, DOI: 10.1111/bre.12290

149 HIRANI, J., BASTESEN, E., BOYCE, A., CORLETT, H.J., GAWTHORPE, R.L., HOLLIS, C., JOHN, C.M., ROBERTSON, H., ROTEVATN, A. AND WHITE, F. (2018) Controls on the formation of stratabound dolostone bodies, Hammam Faraun Fault Block, Gulf of Suez. Sedimentology, DOI: 10.1111/sed.12454

148 GEURTS, A.H., COWIE, P.A., DUCLAUX, G., GAWTHORPE, R.L. HUISMANS, R.S., PEDERSEN, V.K. AND WEDMORE, L.H.J. (2018) Drainage integration and sediment dispersal in active continental rifts: a numerical modelling study of the central Italian Apennines. Basin Research, DOI: 10.1111/bre.12289

147 NYBERG, B., HELLAND-HANSEN, W., GAWTHORPE, R.L., SANDBAKKEN, P., EIDE, C.H., SØMME, T., HADLER-JACOBSEN, F. AND LEIKNES, S. (2018) Revisiting morphological relationships of modern source-to-sink segments as a first-order approach to scale ancient sedimentary systems. Sedimentary Geology, 373, 111-133, https://doi.org/10.1016/j.sedgeo.2018.06.007

146 NYBERG, B., GAWTHORPE, R.L. AND HELLAND-HANSEN, W. (2018) The distribution of rivers to terrestrial sinks: Implications for sediment routing systems. Geomorphology, 316, 1-23, https://doi.org/10.1016/j.geomorph.2018.05.007

145 CORLETT, H.J., BASTESEN, E., GAWTHORPE, R.L., HIRANI, J., HODGETTS, D., HOLLIS, C. AND ROTEVATN, A. (2018) Origin, dimensions, and distribution of remobilized carbonate deposits in a tectonically active zone, Eocene Thebes Formation, Sinai, Egypt. Sedimentary Geology, 372, 44-63, https://doi.org/10.1016/j.sedgeo.2018.04.008

144 BERNAL, A., HARDY, S. AND GAWTHORPE, R.L. (2018) Three-Dimensional Growth of Flexural Slip Fault-Bend and Fault-Propagation Folds and Their Geomorphic Expression. Geosciences, 8, UNSP 110, doi:10.3390/geosciences8040110

143 MURAVCHIK, M., GAWTHORPE, R.L., SHARP, I.R., RARITY, F. AND HODGETTS, D. (2018) Sedimentary environment evolution in a marine hangingwall dipslope setting. El Qaa Fault Block, Suez Rift, Egypt. Basin Research, 30, 452-478, doi: 10.1111/bre.12231

142 BELL, R.E., DUCLAUX, G. NIXON, C.W., GAWTHORPE, R.L. AND MCNEILL, L.C. (2017) High-angle, not low-angle, normal faults dominate early rift extension in the Corinth Rift, central Greece. Geology, DOI.ORG/10.1130/G39560.1

141 KHEL, C., BUCKLEY, S.J., VISEUR, S., GAWTHORPE, R.L., MULLINS, J.R. AND HOWELL, J.A. (2017) Mapping field photographys to textured meshes directly on mobile devices. Photogrammetric Record, 32, 398-423. DOI: 10.1111/phor.12213

140 DENG, C., GAWTHORPE, R.L., FINCH, E. AND FOSSEN, H. (2017) Influence of pre-existing basement weakness on normal fault growth during oblique extension: Insights from discrete element modeling. Journal of Structural Geology, 105, 44-61. DOI: 10.1016/j.jsg.2017.11.005

139 GAWTHORPE, R.L., ANDREWS, J.E., COLLIER, R.E.L., FORD, M., LEEDER, M.R., HENSTRA, G., HARALAMBOS, K. AND SKOURTSOS, E. (2017) Building up or out? disparate sequence architectures along an active rift margin—Corinth rift, Greece. Geology. https:// doi .org /10 .1130 /G39660.1

138 GE, Z., NEMEC, W., GAWTHORPE, R.L., ROTEVATN, A. AND HANSEN, E.W.M. (2017) Response of unconfined turbidity current to relay-ramp topography: insights from process-based numerical modeling. Basin Research, DOI: 10.1111/bre.12255

137 PECHLIVANIDOU S., COWIE, P.A., HANNISDAL, B., WHITTAKER, A.C., GAWTHORPE, R.L., PENNOS C. AND RIISER O.S. (2017). Source-to-sink analysis in an active extensional setting: Holocene erosion and deposition in the Sperchios rift, central Greece. Basin Research. DOI:10.1111/BRE.12263

136 DENG, C., FOSSEN, H., GAWTHORPE, R.L., ROTEVATN, A., JACKSON, C. A-L. AND FAZLIKHANI, H. (2017) Influence of fault reactivation during multiphase rifting: the Oseberg area, northern North Sea rift. Marine and Petroleum Geology, 86, 1252-1272. http://dx.doi.org/10.1016/j.marpetgeo.2017.07.025

135 GAWTHORPE, R.L., LEEDER, M.R., HARALAMBOS, K., SKOURTSOS, E., ANDREWS, J.E., HENSTRA, G.A., MACK, G., MURAVCHICK, M., TURNER, J. AND STAMATAKIS, M. (2017) Tectono-sedimentary evolution of the Plio-Pleistocene Corinth rift, Greece, Basin Research, DOI: 10.1111/bre.12260.

134 KORNEVA, I., BASTESON, E., CORLETT, H., EKER, A., HIRANI, J., HOLLIS, C., GAWTHORPE, R.L., ROTEVATN, A. AND TAYLOR, R. (2017) The effects of dolomitization on petrophysical properties and fracture distribution within rift-related carbonates (Hammam Faraun Fault Block, Suez Rift, Egypt). Journal of Structural Geology, http://dx.doi.org/10.1016/j.jsg.2017.06.005

133 KRISTENSEN, T.B., ROTEVATN, A., MARVIK, M., HENSTRA, G.A., GAWTHORPE, R.L. AND RAVNÅS, R. (2017) Structural evolution of sheared margin basins: The role of strain partitioning. Sørvestsnaget Basin, Norwegian Barents Sea. Basin Research, doi: 10.1111/bre.12253

132 ROMAIN HEMELSDAEL, R., FORD, M., MALARTRE, F. AND GAWTHORPE, R.L. (2017) Interaction of an antecedent fluvial system with early normal fault growth: implications for syn-rift stratigraphy, western

Corinth rift (Greece). Sedimentology, DOI: 10.1111/sed.12381

131 HOLLIS, C., BASTESON, E., BOYCE, A., CORLETT, H., GAWTHORPE, R., HIRANI, J., ROTEVATN, A. AND WHITAKER, F. (2017) Fault-controlled dolomitization in a rift basin. Geology, DOI: 10.1130/G38394.1

130 CLARINGBOULD, J.S., BELL, R.E., JACKSON, C. A-L., GAWTHORPE, R.L.,AND ODINSEN, T. (2017) Pre-existing normal faults have limited control on the rift geometry ofthenorthern North Sea. Earth and Planetary Science Letters, http://dx.doi.org/10.1016/j.epsl.2017.07.014

129 FINCH, E. AND GAWTHORPE, R.L. (2017) Growth and interaction of normal faults and fault network evolution in rifts: insights from three dimensional discrete element modelling. In: Childs, C., Holdsworth, R. E., Jackson, C. A.-L., Manzocchi, T., Walsh, J. J. & Yielding, G. (eds) *The Geometry and Growth of Normal Faults*. Geological Society, London, Special Publications 439, https://doi.org/10.1144/SP439.23

128 DUFFY, O.B., NIXON, C.W., BELL, R.E., JACKSON, C. A-L., GAWTHORPE, R.L., SANDERSON, D.J. AND WHIPP, P.S. (2017) The topology of evolving rift fault networks: Single-phase vs multi-phase rifts. Journal of Structural Geology, 80, 96, 192-202.

127 FAZLIKHANI1, H., FOSSEN, H., GAWTHORPE, R.L., FALEIDE, J.I. AND REBECCA E. BELL, R.E. (2017) Basement structure and its influence on the structural configuration of the northern North Sea Rift. Tectonics, 36, 1151–1177, doi:10.1002/2017TC004514

126 KHEL, C., BUCKLEY, S.J., VISEUR, S., GAWTHORPE, R.L. AND HOWELL, J.A. (2017) Automatic illumination-invariant image-to-geometry registration in outdoor environments. The Photogrammetric Record, 32, 93-118, DOI: 10.1111/phor.12188

125 GE, Z., GAWTHORPE, R.L., ROTEVATN, A. AND THOMAS, M.B. (2016) Impact of normal faulting and pre-rift salt tectonics on the structural style of salt-influenced rifts: The Late Jurassic Norwegian Central Graben, North Sea. Basin Research. doi:10.1111/bre.12219.

124 GE, Z., NEMEC, W., GAWTHORPE, R.L. AND HANSEN, E.W.M. (2017) Response of unconfined turbidity current to normal-fault topography. Sedimentology, 64: 932–959. doi:10.1111/sed.12333.

123 WHIPP, P.S., JACKSON, C. A-L., SCHLISHE, R.W., WITHJACK, M.O. AND GAWTHORPE, R.L. (2016) Spatial distribution and evolution of fault-segment boundary types in rift systems: observations from experimental clay models. In: Childs, C., Holdsworth, R. E., Jackson, C. A.-L., Manzocchi, T., Walsh, J. J. & Yielding, G. (eds) *The Geometry and Growth of Normal Faults*. Geological Society, London, Special Publications 439, http://doi.org/10.1144/SP439.7

122 HENSTRA, G.A., GAWTHORPE, R.L., HELLAND-HANSEN, W., RAVNAS, R., AND ROTEVATN, A. (2017) Depositional systems in multiphase rifts: seismic case study from the Lofoten margin, Norway. Basin Research, 29, 447-469, doi: 10.1111/bre.12183

121 NIXON, C.W., McNEIL, L.C., BULL, J.M., BELL, R.E., GAWTHORPE, R.L. et al. (2016), Rapid spatiotemporal variations in rift structure during development of the Corinth Rift, central Greece, Tectonics, 35, 1225-1248. doi:10.1002/2015TC004026.

120 ELLIOTT, G.M., WILSON, P., JACKSON, C. A-L., GAWTHORPE, R.L., MICHELSEN, L. AND SHARP, I.R. (2015) Late syn-rift evolution of the Vingleia Fault Complex, HaltenTerrace, offshore Mid-Norway; a test of rift basin tectono-stratigraphic models. Basin Research, 29, 465-487, doi: 10.1111/bre.12158

119 LEWIS, M.M., JACKSON, C.A-L. AND GAWTHORPE, R.L. (2015) Tectono-sedimentary development of early syn-rift deposits: The Abura Graben, Suez Rift, Egypt. Basin Research, 29, 327-351, doi: 10.1111/bre.12151

118 NGOC LE, A., HUUSE, M., REDFERN, J., GAWTHORPE, R.L. AND IRVING, D. (2015) Seismic characterization of a Bottom Simulating Reflection (BSR) and plumbing system of the Cameroon margin, offshore West Africa. Marine and Petroleum Geology, 68, 629-647.

117 DUFFY, O.B., BELL, R.E., JACKSON, C. A-L., GAWTHORPE, R.L., AND WHIPP, P.S. (2015) Fault Growth and interactions in a multiphase rift fault network: Horda Platform, Norwegian North Sea. Journal of Structural Geology, 80, 99-119.

116 WILSON, P., ELLIOTT, G.M., GAWTHORPE, R.L., JACKSON, C. A-L., MICHELSEN, L. AND SHARP, I.R. (2015) Lateral variation in structural style along an evaporite-influenced rift fault system in the Halten Terrace, Norway: Influence of basement structure and evaporite facies. Journal of Structural Geology, 79, 101-123.

115 LEWIS, M.M., JACKSON, C.A-L., GAWTHORPE, R.L. AND WHIPP, P.S. (2015) Early synrift reservoir development on the flanks of extensional forced folds: A seismic-scale outcrop analog from the Hadahid

fault system, Suez Rift, Egypt. American Association of Petroleum Geologists Bulletin, 99, 985-1012.

114 HENSTRA, G.A., ROTEVATN, A., GAWTHORPE, R.L. AND RAVNAS, R. (2015) Evolution of a major segmented normal fault during multiphase rifting: The origin of plan-view zigzag geometry. Journal of Structural Geology, 74, 45-63.

113 KLAUSEN, T.G., RYSETH, A.E., HELLAND-HANSEN, W., GAWTHORPE, R.L. AND LAURSEN, I. (2015) Regional development and sequence stratigraphy of the Middle to Late Triassic Snadd Formation, Norwegian Barents Sea. Marine and Petroleum Geology, 62, 102-122.

112 DUFFY, O.B., BROCKLEHURST, S.H., GAWTHORPE, R.L., LEEDER, M.R. AND FINCH, E. (2015) Controls on landscape and drainage evolution in regions of distributed normal faulting: Perachora Peninsula, Corinth Rift, Central Greece. Basin Research, 27, 473-494.

111 PECHLIVANIDOU, S., VOUVALIDIS, K., LØVLIE, R., NESJE, A., ALBANAKIS, K., PENNOS, C., SYRIDES, G., COWIE, P. AND GAWTHORPE, R.L. (2014) A multi-proxy approach to reconstructing sedimentary environments from the Sperchios delta, Greece. The Holocene, 24, 1825-1839.

110 WHIPP, P.S., JACKSON, C. A-L., GAWTHORPE, R.L., DREYER, T. AND QUINN, D. (2014) Normal fault array evolution above a reactivated rift fabric; a subsurface example from the northern Horda Platform, Norwegian North Sea. Basin Research, 26, 523-549.

109 OLUBOYO, A.P., GAWTHORPE, R.L., BAKKE, K. AND HADLER-JACOBSEN, F. (2014) Salt tectonic controls on deep-water turbidite depositional systems: Miocene, southwestern Lower Congo Basin, offshore Angola. Basin Research, 26, 597-620.

108 KLAUSEN, T.G., RYSETH, A.E., HELLAND-HANSEN, W., GAWTHORPE, R.L. AND LAURSEN, I. (2014) Spatial and temporal changes in geometries of fluvial channel bodies from the Triassic Snadd Formation of offshore Norway. Journal of Sedimentary Research, 84, 567-585.

107 BELL, R. E., JACKSON, C. A-L., ELLIOTT, G. M., GAWTHORPE, R. L., SHARP, I.R. AND MICHELSEN, L. (2014) Insights into the development of major rift-related unconformities from geologically constrained subsidence modelling: Halten Terrace, offshore mid Norway. Basin Research, 26, 203-224.

106 RARITY, F., VAN LANEN, X. M. T., HODGETTS, D., GAWTHORPE, R. L., WILSON, P., FABUEL PEREZ, I. AND REDFERN, J. (2014) Lidar-based digital outcrops in sedimentology and stratigraphy: workflows and techniques. In: Martinius, A.W., Howell, J.A. and Good, T.R. (eds.) *Sediment-Body Geometry and Heterogeneity: Analogue Studies for Modelling the Subsurfac*e. Special Publication of the Geological Society of London, 387, 153-183.

105 TVEDT, A.B.M., ROTEVATN, A., JACKSON, C.A-L., FOSSEN, H. AND GAWTHORPE, R.L. (2013) Growth Of Normal Faults In Multilayer Sequences: A 3D seismic case study from the Egersund Basin, Norwegian North Sea. Journal of Structural Geology, 55, 1-20.

104 LEWIS, M.M., JACKSON, C.A-L. AND GAWTHORPE, R.L. (2013) Salt-influenced normal fault growth and forced folding: The Stavanger Fault System, North Sea. Journal of Structural Geology, 54, 156-173.

103 GENNARO, M., WONHAM, J.P., GAWTHORPE, R.L. AND SÆLEN, G. (2013) Seismic stratigraphy of the Chalk Group in the Norwegian Central Graben, North Sea. Marine and Petroleum Geology, 45, 236-266.

102 WILSON, P., ELLIOTT, G.M., GAWTHORPE, R.L., JACKSON, C. A-L., MICHELSEN, L. AND SHARP, I.R. (2013) Geometry and segmentation of an evaporite-detached normal fault array: 3D seismic analysis of the southern Bremstein Fault Complex, offshore mid-Norway. Journal of Structural Geology, 51, 74-91.

101 DUFFY, O.B., GAWTHORPE, R.L., DOCHERTY, M. AND BROCKLEHURST, S.H. (2013) Mobile evaporite controls on the structural style and evolution of rift basins: Danish Central Graben, North Sea. Basin Research, 25, 310-330.

100 VACHTMAN, D., MITCHELL, N.C. AND GAWTHORPE, R.L. (2013) Morphometric signatures in submarine canyons and gullies, central USA Atlantic continental margins. Marine and Petroleum Geology, 41, 250-263.

99 STRACHAN, L.J., RARITY, F., GAWTHORPE, R.L., WILSON, P., SHARP, I.R. AND HODGETTS, D. (2013) Submarine slope processes in rift-margin basins, Miocene Suez Rift, Egypt. Geological Society of America Bulletin, 125, 109-127.

98 LEEDER, M.R., MARK, D.F., GAWTHORPE, R.L., KRANIS, H., PEDENTCHOUK, N., SKOURTSOS, E., TURNER, J., ANDREWS, J.E. AND STAMATAKIS, M. (2012) A “Great Deepening”: Chronology of rift climax, Corinth rift, Greece. Geology, 40, 999-1002.

97 AMEZCUA, N., GAWTHORPE, R.L. AND MCQUAKER, J.H.S. (2012) Cascading carbonate lakes of the Mayran Basin system, northeast Mexico: The interplay of inherited structural geometry, bedrock lithology

and climate. Geological Society of America Bulletin, 124, 975-988.

96 ELLIOTT, G.M., WILSON, P., JACKSON, C. A-L., GAWTHORPE, R.L., MICHELSEN, L. AND SHARP, I.R. (2012) The linkage between fault throw and footwall scarp erosion patterns: an example from the Bremstein Fault Complex, offshore Mid-Norway. Basin Research, 24, 180-197.

95 DUFFY, O.B., GAWTHORPE, R.L., DOCHERTY, M. AND BROCKLEHURST, S.H. (2012) Mobile evaporite controls on the structural style and evolution of rift basins: Danish Central Graben, North Sea. Basin Research, 24, 1-12

94 WILSON, P., HODGETTS, D., RARITY, F., GAWTHORPE, R.L., AND SHARP, I.R. (2011) Half-graben-scale geocelular outcrop modeling of rift initiation strata from lidar-based digital outcrop data: The Nukhul synclince, Suez Rift, Egypt. In: Martinsen, O.J., Pulham, A.J., Haughton, P.D.W. and Sullivan, M.D. (eds.), *Outcrops Revitalized – Tools, Techniques and Applications*. SEPM Concepts in Sedimentology and Paleontology, 10, 51-68.

93 CATTERALL, V, REDFERN, J., GAWTHORPE, R.L., HANSEN, D. AND THOMAS, M. (2010) Architectural style and quantification of a submarine channel-levee system located in a structurally complex area: Offshore Nile delta. Journal of Sedimentary Research, 80, 991-1017.

92 FOSTER, D., BROCKLEHURST, S.H. AND GAWTHORPE, R.L. (2010) Glacial-topographic interactions in the Teton Range, Wyoming, *J. Geophys. Res.*, *115*, F01007, doi:10.1029/2008JF001135.

90 ZACHARIAH, A.J., GAWTHORPE, R.L., DREYER, T. AND CORFIELD, S. (2009) Evolution and strike variability of early post-rift deep-marine depositional systems: Lower to mid-Cretaceous, North Viking Graben, Norwegian North Sea. Sedimentary Geology, in press.

89 WILSON, P., GAWTHORPE, R.L., HODGETTS, D., RARITY, F. AND SHARP, I.R. (2009) Geometry and architecture of faults in a syn-rift normal fault array: the Nukhul half-graben, Suez rift, Egypt. Journal of Structural Geology, 31, 459-475..

88 WILSON, P., HODGETTS, D., RARITY, F., GAWTHORPE, R.L. AND SHARP, I.R. (2009) Structural geology and 4D evolution of a half-graben: New digital outcrop modelling techniques applied to the Nukhul half-graben, Suez rift, Egypt. Journal of Structural Geology, 31, 328-345.

87 ZACHARIAH, A.J., GAWTHORPE, R.L., DREYER, T. AND CORFIELD, S. (2008) Controls on early post-rift physiography and stratigraphy, lower to mid-Cretaceous, North Viking Graben, Norwegian North Sea. Basin Research, 21, 189-208.

86 FOSTER, D., BROCKLEHURST, S.H. AND GAWTHORPE, R.L. (2008) Small valley glaciers and the effectiveness of the glacial buzzsaw in the northern Basin and Range, USA. Geomorphology, 102, 624-639.

85 BATES, K.T., RARITY, F., MANNING, P.L., HODGETTS, D. VILA, B., OMS, O., GALOBART, A. and GAWTHORPE, R.L. (2008) High-resolution LiDAR and photogrammetric survey of the Fumanya dinosaur tracksites (Catalonia): implications for the conservation and interpretation of geological heritage sites. Journal of the Geological Society, London, 165, 115-127.

84 FRASER, S.I., FRASER, A.J., LENTINI, M.R. AND GAWTHORPE, R.L. (2007) Return to rifts - the next wave: fresh insights into the petroleum geology of global rift basins. Petroleum Geoscience, 13, 99-104.

83 MACQUAKER, J.H.S., TAYLOR, K.G. AND GAWTHORPE, R.L. (2007) High-resolution facies analyses of mudstones: Implications for paleoenvironmental and sequence stratigraphic interpretations of offshore ancient mud-dominated successions. Journal of Sedimentary Research 77, 324-339.

82 GEE, M.J.R. AND GAWTHORPE, R.L. (2007) Early evolution of submarine channels offshore Angola revealed by three-dimensional seismic data in press. In: Davies, R.J., Posamentier, H.W., Wood, L.J. and Cartwright, J.A. (eds.), *Seismic Geomorphology: Applications to Hydrocarbon Exploration and Production.* Geological Society Special Publication, 277, 223-235.

81 GEE, M.J.R., GAWTHORPE, R.L., BAKKE, K. AND FRIEDMANN, S.J. (2007) Seismic geomorphology and evolution of submarine channels from the Angolan continental margin. Journal of Sedimentary Research 77, 433-446.

80 LEPPARD, C.W. AND GAWTHORPE, R.L. (2006) Sedimentology of rift climax deep water systems; Lower Rudeis Formation, Hammam Faraun Fault Block, Suez Rift, Egypt. Sedimentary Geology, 191(1-2), 67-87.

79 GEE, M.J.R. AND GAWTHORPE, R.L. (2006) Submarine channels controlled by salt tectonics: Examples from 3D seismic data offshore Angola. Marine and Petroleum Geology, 23(4), 443-458.

78 JACKSON, C.A-L., GAWTHORPE, R.L. AND SHARP, I.R. (2006) Style and sequence of deformation during extensional fault-propagation folding: examples from the Hammam Faraun and El-Qaa fault blocks, Suez

Rift, Egypt. Journal of Structural Geology, 28(3), 519-535.

77 GEE, M.J.R., GAWTHORPE, R.L. AND FRIEDMANN, S.J. (2006) Triggering and evolution of a giant submarine landslide, offshore Angola, revealed by 3D seismic stratigraphy and geomorphology. Journal of Sedimentary Research 76(1-2), 9-19.

76 JACKSON, C.A-L., GAWTHORPE, R.L., LEPPARD, C.W. AND SHARP, I.R. (2006) Rift-initiation development of normal fault blocks: insights from the Hammam Faraun fault block, Suez Rift, Egypt. Journal of the Geological Society, 163(1), 165-183.

75 BURNS, F.E., BURLEY, S.D., GAWTHORPE,, R.L. AND POLLARD, J.E. (2005) Diagenetic signatures of stratal surfaces in the Upper Jurassic fulmar Formation, Central North Sea, UKCS. Sedimentology, 52(6), 1155-1185.

74 JACKSON, C.A-L., GAWTHORPE, R.L., CARR, I.D. AND SHARP, I.R. (2006) Normal faulting as a control on the stratigraphic development of shallow marine syn-rift sequences: the Nukhul and Lower Rudeis Formations, Hammam Faraun fault block, Suez Rift, Egypt. Sedimentology, 52(2), 313-338.

73 LEEDER, M.R., PORTMAN, C., ANDREWS, J.E., COLLIER, R.E.LL., FINCH, E., GAWTHORPE, R.L., MCNEILL, L.C., PEREZ-ARLUCEA, M. AND ROWE, P. (2005) Normal faulting and crustal deformation, Alkyonides Gulf and Perachora peninsula, eastern Gulf of Corinth rift, Greece. Journal of the Geological Society, 162(3), 549-561.

72 GEE, M.J.R., GAWTHORPE, R.L. AND FRIEDMANN, S.J. (2005) Giant striations at the base of a submarine landslide.. Marine Geology. 214(1-3), 287-294.

71 MALPAS, J.A., GAWTHORPE, R.L., POLLARD, J.E. AND SHARP, I.R. (2005) Ichnofabric analysis of the shallow marine Nukhul Formation (Miocene), Suez Rift, Egypt: implications for depositional processes and sequence stratigraphic evolution. Palaeogeography, Palaeoclimatology, Palaeoecology, 215(3-4), 239-264.

70 FINCH, E., HARDY, S., AND GAWTHORPE, R.L. (2004) Discrete-element modelling of extensional fault-propagation folding above rigid basement fault blocks. Basin Research, 16(4), 489-506.

69 TAYLOR, K.G., GAWTHORPE, R.L. AND FANNON-HOWELL, S. (2004) Basin-scale diagenetic alteration of shoreface sandstones in the Upper Cretaceous Spring Canyon and Aberdeen Members, Blackhawk Formation, Book Cliffs, Utah. Sedimentary Geology, 172(1-2), 99-115.

68 BERNAL, A., HARDY, S., GAWTHORPE, R.L. AND FINCH, E. (2004) Stratigraphic expression of the lateral propagation and growth of isolated fault-related uplifts. Basin Research 16(2), 219-233.

67 RITCHIE, B.D., GAWTHORPE, R.L., AND HARDY, S. (2004) Three-dimensional numerical modeling of deltaic depositional sequences 2: Influence of local controls. Journal of Sedimentary Research 74(2), 221-238.

66 RITCHIE, B.D., GAWTHORPE, R.L., AND HARDY, S. (2004) Three-dimensional numerical modeling of deltaic depositional sequences 1: Influence of the rate and magnitude of sea-level change. Journal of Sedimentary Research 74(2), 203-220.

65 ALVES, T.M., MANUPPELLA, G., GAWTHORPE, R.L., HUNT, D.W. AND MONTEIRO, J.H. (2003) The depositional evolution of diapir- and fault-bounded rift basins: examples from the Lusitanian Basin of West Iberia. Sedimentary Geology, 162(3-4), 273-303.

64 YOUNG, M.J., GAWTHORPE, R.L. AND SHARP, I.R. (2003). Normal fault growth and early syn-rift sedimentology and sequence stratigraphy: Thal Fault, Suez Rift, Egypt. Basin Research 15(4), 479-502.

63 TAYLOR, K.G. AND GAWTHORPE, R.L. (2003) Basin-scale dolomite cementation of shoreface sandstones in response to sea-level fall. *Bull. Geol. Soc. Am,* 115(10), 1218-1229.

62 FRASER, A.J. AND GAWTHORPE, R.L. (2003) An Atlas of Carboniferous Basin Evolution in Northern England. Geological Society, London, Memoir 28, pp 79.

61 ALVES, T.M., GAWTHORPE, R.L., HUNT D.W., AND MONTEIRO, J.H. (2003) Cenozoic tectono-sedimentary evolution of the western Iberian margin. Marine Geology 195(1-4), 75-108.

60 ALVES, T.M., GAWTHORPE, R.L., HUNT, D.W., AND MONTEIRO, J.H. (2003) Post-Jurassic tectono-sedimentary evolution of the Northern Lusitanian Basin (Western Iberian margin). Basin Research, 15(2), 227-249.

59 CARR, I.D., GAWTHORPE, R.L., JACKSON, C.A-L., SHARP, I.R., AND SADEK, A. (2003) Sedimentology and sequence stratigraphy of early Syn-Rift tidal sediments: The Nukhul Formation, Suez Rift, Egypt. Journal of Sedimentary Research 73(3), 407-420.

58 COOPER, K.A., HARDY, S., AND GAWTHORPE, R.L. (2003) Stratigraphic and structural expression of the lateral growth of thrust fault-propagation folds: results and implications from kinematic modelling. Basin Research 15(2), 165-182.

57 FINCH, E., HARDY, S., AND GAWTHORPE, R.L. (2003) Discrete element modelling of contractional fault-propagation folding above rigid basement fault blocks. Journal of Structural Geology 25(4), 515-528.

56 GAWTHORPE, R.L., HARDY, S., AND RITCHIE, B.D. (2003) Numerical modelling of depositional sequences in half-graben rift basins. Sedimentology 50(1), 169-185.

55 GAWTHORPE, R.L., JACKSON, C.A-L., YOUNG, M.J., SHARP, I.R., MOUSTAFA, A.R., AND LEPPARD, C.W. (2003) Normal fault growth, displacement localisation and the evolution of normal fault populations: the Hamman Faraun fault block, Suez Rift, Egypt. Journal of Structural Geology 25, 883-895.

54 LEEDER, M.R., MCNEILL, L.C., COLLIER, R.E.LL., PORTMAN, C., ROWE, P.J., ANDREWS, J.E., AND GAWTHORPE, R.L. (2003) Corinth rift margin uplift: New evidence from Late Quaternary marine shorelines. Geophysical Research Letters 30(12), art. no.-1611.

53 GAWTHORPE, R.L. AND HARDY, S. (2002) Extensional fault-propagation folding and base-level change as controls on growth-strata geometries. Sedimentary Geology 146(1-2), 47-56.

52 HARDY, S. AND GAWTHORPE, R.L. (2002) Normal fault control on bedrock channel incision and sediment supply: Insights from numerical modeling. Journal of Geophysical Research-Solid Earth 107(B10), art. no.-2246.

51 JACKSON, C.A-L., GAWTHORPE, R.L., AND SHARP, I.R. (2002) Growth and linkage of the East Tanka fault zone, Suez rift: structural style and syn-rift stratigraphic response. Journal of the Geological Society 159, 175-187.

50 YOUNG, M.J., GAWTHORPE, R.L., AND SHARP, I.R. (2002) Architecture and evolution of syn-rift clastic depositional systems towards the tip of a major fault segment, Suez Rift, Egypt. Basin Research 14(1), 1-23.

49 ALVES, T.M., GAWTHORPE, R.L., HUNT, D.W., AND MONTEIRO, J.H. (2002) Jurassic tectono-sedimentary evolution of the Northern Lusitanian Basin (offshore Portugal). Marine and Petroleum Geology 19(6), 727-754.

48 YOUNG, M.J., GAWTHORPE, R.L., AND HARDY, S. (2001) Growth and linkage of a segmented normal fault zone; the late Jurassic Murchison-Statfjord North Fault, northern North Sea. Journal of Structural Geology 23(12), 1933-1952.

47 YOUNG, M.J., GAWTHORPE, R.L., AND SHARP, I.R. (2000) Sedimentology and sequence stratigraphy of a transfer zone coarse-grained delta, Miocene Suez Rift, Egypt. Sedimentology 47(6), 1081-1104.

46 GAWTHORPE, R.L. AND LEEDER, M.R. (2000) Tectono-sedimentary evolution of active extensional basins. Basin Research 12(3-4), 195-218

45 SHARP, I.R., GAWTHORPE, R.L., ARMSTRONG, B. AND UNDERHILL, J.R., 2000, Propagation history and passive rotation of mesoscale normal faults: implications for syn-rift stratigraphic development. Basin Resarch, 12, 285-305.

44 TAYLOR, K, GAWTHORPE, R.L., CURTIS, C.D., MARSHALL, J.D. & AWWILLER, D.N. 2000. Carbonate cementation in a sequence stratigraphic framework: Upper Cretaceous Sandstones, Book Cliffs, Utah-Colorado. *J. Sedim. Res.* 70, 360-372.

42 SHARP, I. , GAWTHORPE, R.L., UNDERHILL, J.R. & GUPTA, S. 2000. Implications of growth folding for syn-rift stacking patterns: evidence from the Oligo-Miocene of the Suez rift. *Bull. Geol. Soc. Am,* 112, 1877-1899.

41 HUNT, D.W. & GAWTHORPE, R.L. (eds). 2000. *Sedimentary Response to Forced Regression*. Geol. Soc. Lond. Spec. Publ. 172.

40 GAWTHORPE, R.L., SHARP, I.R., HALL, M.T. & DREYER, T. 2000. Forced regressions around propagating folds and faults. In: Hunt, D.W. & Gawthorpe, R.L. (eds.), *Sedimentary Responses to Forced Regression*, Geol. Soc. Lond. Spec. Publ., 172, 177-193.

39 MCMURRAY, L.S. & GAWTHORPE, R.L. 2000. Controls on the strike variability of forced regressive deposits: late Quaternary, northern Peloponnesos, Greece. In: Hunt, D.W. & Gawthorpe, R.L. (eds.), *Sedimentary Responses to Forced Regression*, Geol. Soc. Lond. Spec. Publ., 172, 365-379.

38 RITCHIE, B.D., HARDY, S. & GAWTHORPE, R.L. 1999. Three-dimensional numerical modelling of coarse-grained clastic deposition in sedimentary basins. *J. Geophys. Res.* 104, 17759-17780.

37 GUPTA, S., SHARP, I., GAWTHORPE, R.L. & UNDERHILL, J.R. 1999. The impact of fault growth and linkage on syn-rift basin margin sedimentation in the Miocene Suez Rift. *Basin Research.* 11, 167-189.

36 HARDY, S. & GAWTHORPE, R.L. 1998. Effects of variations in fault slip rate on sequence stratigraphy in fan deltas: Insights from numerical modelling. *Geology*, 26, 911-914.

35 MACQUAKER, J.H.S., GAWTHORPE, R.L., TAYLOR, K.G. & OATES, M.J. 1998. Heterogeneity, stacking patterns and sequence stratigraphic interpretation in distal mudstone successions: examples from the Kimmeridge Clay Formation, U.K. In: J. Schieber, W. Zimmerle, and P. Sethi (eds.). *Mudstones and Shales: Recent Progress in Shale Research.* Schweizerbart'sche Verlagsbuchhandlung, Stuttgart. Volume 1, 163-186.

34 GAWTHORPE, R.L. & HUNT, C. 1997. Dynamic Stratigraphy: Controls and Products, Version 2.0. University of Manchester for UK Earth Science Courseware Consortium, University of Manchester. (Computer-aided learning software.)

33 GAWTHORPE, R.L., SHARP, I., UNDERHILL, J.R. & GUPTA, S. 1997. Linked sequence stratigraphic and structural evolution of propagating normal faults. *Geology*, 25, 795-798.

32 UNDERHILL, J.R., SAWYER, M.J., HODGSON, P., SHALLCROSS, M.D. & GAWTHORPE, R.L. 1997. Implications of fault-scarp degradation for Brent Group prospectivity, Ninian Field, Northern North Sea. *Bull. Am. Assoc. Petrol. Geol.,* 81, 999-1022.

31 CHURCH, K.D. & GAWTHORPE, R.L. 1997 Sediment supply as a control on the variability of depositional sequences: an example from the Namurian of northern England. *J. Geol. Soc*. 154, 55-60.

30 CORFIELD, S.M., GAWTHORPE, R.L., GAGE, M., FRASER, M.J. & BESLY, B.M. 1996. Inversion tectonics of the Variscan foreland of the British Isles. *J. Geol. Soc*., 153, 17-32.

29 GAWTHORPE, R.L. & HUNT, C. 1995. Dynamic Stratigraphy: Controls and Products, Version 1.0. University of Manchester for UK Earth Science Courseware Consortium, University of Manchester. (Computer-aided learning software.)

28 ELIET, P.P. & GAWTHORPE, R.L. 1995. Drainage development and sediment supply within rift basins the Sperchios basin, central Greece. *J. Geol. Soc*., 152, 883-893.

27 TAYLOR, K, GAWTHORPE, R.L. & VAN WAGONER, J.C. 1995. Stratigraphic control on laterally persistent cementation, Book Cliffs, Utah. *J. Geol. Soc.,* 152, 225-228.

26 BRIDGE, J.S., ALEXANDER, J., COLLIER, R.E.Ll., GAWTHORPE, R.L. & JARVIS. J. 1994. Point-bar deposits documented in 3-D using ground-penetrating radar and coring. *Sedimentology*, 42, 839-852.

25 MACQUAKER, J.H.S. & GAWTHORPE, R.L. 1994. Mudstone lithofacies in the Kimmeridge Clay Formation, Wessex Basin, southern England: implications for the origin and controls of the distribution of mudstones. Reply. *J. Sed. Pet.,* A64, 930-932.

24 ROBERTS, G.P. & GAWTHORPE, R.L. 1994. Strike variation in deformation and diagenesis along segmented normal faults: An example from the eastern Gulf of Corinth, Greece. In: LAMBIASE, J.J. (ed), *Hydrocarbon Habitat in Rifts*, Geol. Soc. Spec. Publ. 80, 57-74.

23 COLLIER, R.E.Ll. & GAWTHORPE, R.L. 1994. Neotectonics, drainage and sedimentation in central Greece: insights into coastal reservoir geometries in syn-rift sequences. In: LAMBIASE, J.J. (ed), *Hydrocarbon Habitat in Rifts*, Geol. Soc. Spec. Publ. 80, 165-181.

22 ALEXANDER, J., BRIDGE, J.S., LEEDER, M.R., COLLIER, R.E.Ll. & GAWTHORPE, R.L. 1994. Holocene meander-belt sedimentology evolution in an active extensional basin, southwestern Montana. *J. Sed. Pet.,* 64, 542-559.

21 GAWTHORPE, R.L. FRASER, A.J. & COLLIER, R.E.Ll. 1994. Sequence stratigraphy in active extensional basins: implications for the interpretation of ancient basin fills. *Mar. Petrol. Geol.,* 11, 642-658.

20 DART, C.J., COLLIER, R.E.Ll., GAWTHORPE, R.L., KELLER, J.V.A. & NICHOLS, G. 1994. Sequence stratigraphy of (?)Pliocene-Quaternary syn-rift, Gilbert-type fan deltas, northern Peloponnesos, Greece. *Mar. Pet. Geol.,* 11, 545-560.

19 CHURCH, K.D. & GAWTHORPE, R.L. 1994. High resolution sequence stratigraphy of the late Namurian in the Widmerpool Gulf (East Midlands, UK). *Mar. Petrol. Geol.,* 11, 528-544.

18 MACQUAKER, J.H.S. & GAWTHORPE, R.L. 1993. Mudstone lithofacies in the Kimmeridge Clay Formation, Wessex Basin, southern England: implications for the origin and controls of the distribution of mudstones. *J. Sed. Pet.,* 63, 1129-1143.

17 GAWTHORPE, R.L. & HURST, J.M. 1993. Transfer zones in extensional basins: their structural style and influence on drainage development and stratigraphy. *Journal of the Geological Society, London,* 150, 1137-1152.

16 TAYLOR, A.M. & GAWTHORPE, R.L. 1993. Application of sequence stratigraphy and trace fossil analysis to reservoir description: examples from the Jurassic of the North Sea. In: PARKER, J.R. (ed), *Petroleum Geology of Northwest Europe: Proceedings of the 4th Conference,* Geol. Soc. London, 317-335.

15 ROBERTS, G., GAWTHORPE, R.L. & STEWART, I. 1993. Surface faulting within active normal fault zones: examples from the Gulf of Corinth fault system, Central Greece. *Zeit. für Geomorph. Suppl.* 94, 303-328.

14 ALEXANDER, J. & GAWTHORPE, R.L. 1993. The complex nature of a Jurassic multistorey, alluvial sandstone body, Whitby, North Yorkshire. In: NORTH, C.P. & PROSSER, D.J. (eds), *Characterization of Fluvial and Aeolian Reservoirs,* Geol. Soc. Spec. Publ. No. 73, 123-142.

13 GAWTHORPE, R.L., COLLIER, R.E.Ll., ALEXANDER, J., BRIDGE, J.S. & LEEDER, M.R. 1993. Ground penetrating radar: application to sandbody geometry and heterogeneity studies. In: NORTH, C.P. & PROSSER, D.J. (eds), *Characterization of Fluvial and Aeolian Reservoirs,* Geol. Soc. Spec. Publ. No. 73, 421-432.

12 BENTHAM, P. COLLIER, R.E.Ll., GAWTHORPE, R.L., LEEDER, M.R., PROSSER, S.D & STARK, C. 1991. Tectono-sedimentary development, uplift and unroofing of an extensional sedimentary basin: the Neogene Megara Basin, Greece. *J. Geol. Soc., London,* 148, 923-934.

11 FRASER, A.J. & GAWTHORPE, R.L. 1990 Tectono-sedimentary development and hydrocarbon habitat of the Carboniferous in northern England. In: HARDMAN, R.F.P. & BROOKS, J. (eds.). *Tectonic control on British hydrocarbon reserves.* Spec. Publ. geol. Soc. London, 55, 49-86.

10 GAWTHORPE, R.L., HURST, J.M. & SLADEN, C.P. 1990 Evolution of Miocene footwall-derived coarse grained deltas, Gulf of Suez, Egypt: implications for exploration. *Bull. Am. Assoc. Petrol. Geol.*, 74, 1077-1086.

9 GAWTHORPE, R.L. & GUTTERIDGE, P. 1990. Geometry and evolution of platform-margin bioclastic shoals, late Dinantian (Mississippian), Derbyshire, UK. In: Tucker, M.E. *et al.* (eds.) *Carbonate Platforms*. IAS Spec. Publ. No. 9, 39-54.

8 GAWTHORPE, R.L. & COLELLA, A. 1990 Tectonic controls on fan-delta systems in rift basins. In: Colella, A. & Prior, D.B. (eds.) *Coarse-grained deltas* IAS Spec. Publ. No. 10, 113-128.

7 WESTAWAY, R.W.C., GAWTHORPE, R.L. & TOZZI, M. 1989. Seismological and field observations of the 1984 Lazio-Abruzzo earthquakes: implications for the active tectonics of Italy. *Geophysical Journal* 98, 489-514.

6 GAWTHORPE, R.L., GUTTERIDGE, P. & LEEDER, M.R. 1989. Late Devonian and Dinantian basin evolution in northern England and north Wales. In: GUTTERIDGE, P., ARTHURTON, R.S. & NOLAN, S.C. (eds.). *The role of tectonics in Devonian and Carboniferous sedimentation of the British Isles.* Yorkshire Geological Society Occasional Publication, No. 8, 1-23.

5 LEEDER, M.R. & GAWTHORPE, R.L. 1987. Sedimentary models for extensional tilt-block/half-graben basins. In: COWARD, M.P., DEWEY, J.F. & HANCOCK, P. (eds.). *Continental extensional tectonics*. Spec. Publ. geol. Soc. London No. 28, 139-152**.**

4 GAWTHORPE, R.L. 1987. Burial dolomitisation and porosity development in a mixed carbonate-clastic sequence: an example from the Bowland Basin, northern England. *Sedimentology* 34, 533-558.

3 GAWTHORPE, R.L. 1987. Tectono-sedimentary evolution of the Bowland Basin, northern England, during the Dinantian. *J. geol. Soc. London* 144, 59-71.

2 GAWTHORPE, R.L. 1986. Sedimentation during carbonate ramp-to-slope evolution in a tectonically active area: Bowland Basin (Dinantian), N. England. *Sedimentology,* 33, 185-206.

1 GAWTHORPE, R.L. & CLEMMEY, H. 1985. Geometry of submarine slides in the Bowland Basin (Dinantian) and their relation to debris flows. *J. geol. Soc. London* 142, 555-565.