RON STEEL CV

EDUCATION & STATUS

B.Sc (Hons) in Geology, University of Glasgow, 1967
Ph.D. University of Glasgow, Scotland, 1971
Permanent resident in USA since 1995.
Joint UK and US citizenships since 2006

Summary

Ron Steel is Professor and Davis Centennial Chair at UT Austin and Sixth-Century Chair of Sedimentary Geology at University of Aberdeen, Scotland. He was previously Chief Geologist for Norsk Hydro (1995-2000) and Professor of Reservoir Geology at the University of Bergen. He has some 150 published papers, edited 7 books, received 6 best paper or poster awards, and graduated 100 MS and PhD students from the universities of Bergen, Wyoming and UT Austin. He has received $7.5m in external grants since 1990, while in Universities of Bergen, Wyoming and Texas. He has held Distinguished and Endowed Lectureships for AAPG, Japan Society for Promotion of Science, and University of Texas at Austin. He is Associate Editor for Marine and Petroleum Geology, on evaluation panel for Norwegian Research Council, was SEPM Councilor for Sedimentology and convenor for SEPM conferences. At UT Austin he has been Chair of the Jackson School Appointments Committee (appointments, promotion & tenure, endowment reviews) since 2006.

JOB EXPERIENCE:

May 2006-present
6th-Century Chair in Sedimentary Geology
University of Aberdeen, UK
August 2003-present:
Professor and Davis Centennial Chair
University of Texas, Austin
February 1999-July 2000:
Interim Director, Institute of Energy Research, University of Wyoming
Feb 1995-July 2003:
Wold Centennial Chair of Energy and Professor of Geology & Geophysics,
Dept. of Geology & Geophysics, University of Wyoming
Jan 1995-Dec 2004:
Professor ll, UNIS, Svalbard
August 1990-February 1995:
Professor of Sedimentology and Reservoir Geology, University of Bergen, Norway
May 1984-August 1990:
Head of Geology Research, then Chief Geologist, Norsk Hydro, Oslo, Norway
Sept 1982-May 1984
Head Sedimentologist, Research Centre Norsk Hydro, Bergen, Norway
Feb 1973-Sept 1982
Senior Lecturer then Reader in Sedimentology, University of Bergen, Norway

Jan 1971-Feb 1973:
Research Assistant, University of Manchester, UK

STEEL: KEY RESEARCH THEMES 2000-9

The main focus of my research over the last 10 years or so, has been to gain an understanding of the time scales, sediment delivery mechanisms, sediment budget partitioning and growth styles of shelves and shelf margins of deepwater basins (RioMAR project). The following research is done in collaboration with many other scientists and students:

- Numerical modeling has shown that deltaic shelf-transit times are generally shorter (10s to 100ky) than believed, implying that fundamental stratigraphic sequences are generally of shorter time scale than conventionally assumed (J.Geol. 2002). The same modeling has shown that deltas are able to reach their shelf edge (staging area for delivering deepwater sands) either by being supply driven or by being accommodation driven (relative fall of sea level). This is important for understanding shelf margins in Greenhouse and Icehouse climates, with their differing eustatic amplitudes and frequencies (BR, 2005; JSR 2006; Geology 2006; SEPM 2008)
- A new stratigraphic theory, emphasizing self-organisation within sedimentary systems, has been proposed. 'Autostratigraphy' proposes that we should account for changes in stratigraphy by autogenic mechanisms (autoretreat etc.) as much as possible, before resorting to allogenic ones (sea level, tectonics etc.) (Geology 2004, JSR 2007),
- Hyperpycnal flow, highly sediment-concentrated river flows during flood and near the shelf edge, is proposed as a major mechanism for creating sustained-flow turbidity currents, complementing the conventional mechanism of slumping (surge-type Bouma turbidites). The characteristics of these deepwater flows are documented, consistent with existing theory (JSR 2004; AAPG 2006).
- Models of Source-to-Sink sediment budget partitioning, for basins with and without shelf-slope break have been proposed. In shallow-water basins the transgressive sediment volumes increase landwards and are greater than usually assumed, and in deepwater basins with <1000m water, the sediment volume preserved in shelf, slope and basin floor (to outer edge of fans) segments are commonly sub-equal (Geology 2006; ESR 2009; JSR 2009).

In addition, my interests in Sedimentation and Tectonics continue, with several students recently completing research on long Late Cretaceous transects from the Sevier fold-and –thrust belt out into the Foreland Basin for 100s of km. I am also strongly engaged in understanding relationships between sea-level change and tides, and in particular in developing models of tidal dunes and bars on deltas, estuaries and shelves.

AWARDS AND HONORS since 1996

Best Lecture, 2nd place, SEPM Rocky Mountain section 1999
Best Paper Award , Rocky Mt Association of Geologists, Denver 1999
Outstanding Research Award, University of Wyoming, 2000

SEPM Excellence of Poster Award, 2001
Distinguished Lecturer, Japanese Society for the Promotion of Science, 2003
Distinguished Lecturer, AAPG, 2004-5
Best Lecture Award, AAPG Billings Montana, with student Andrew Petter
Awarded 6th-Century Chair, University of Aberdeen, UK, 2006
SEPM Best Paper (Honorable Mention) Porebski & Steel 2007
AAPG Best Paper (2nd Place), Petter et al. , 2008
Walter Excellence Award, Jackson School, University of Texas at Austin 2009
SEPM Best Paper (Honorable Mention), Gerber et al. 2009

GRADUATE STUDENTS

During my 28 years at the Universities of Bergen, Wyoming and UT Austin I was supervisor for some 100 graduate students See separate list.

POST-DOCTORAL RESEARCHERS SUPERVISED

1. Ole Martinsen, Norway, University of Bergen, 1991-3
2. Donatella Mellere, Italy, University of Bergen, 1992-5
3. Tihomir Marjanac, Croatia, University of Bergen, 1993-5
4. Per Pedersen, Denmark., University of Wyoming 1997
5. Antonio Cattaneo, Italy. University of Wyoming 1998-2000.
6. Piret Plink-Bjorklund, Sweden.University of Wyoming 1999-2001
7. Szczepan Porebski, Poland. University of Wyoming 2000-2001
8. Lars Seidler, Denmark. University of Wyoming 2000-2001.
9. Tetsuji Muto, Japan. University of Wyoming 2000-2001
10. Gordon Marlatt, USA. University of Wyoming 2000-2001.
11. Jeff Crabaugh, USA, University of Wyoming 2001-2003
12. Shuji Yoshida, Japan, University of Texas at Austin, 2003-2005
13. Cornel Olariu, Romania, University of Texas at Austin, 2005-2007

RESEARCH FUNDING AWARDS 1995-2008.

1.	1995-1997 Turbidite sands, Spitsbergen (Statoil)	$100,220
2.	1995-1997 Sequence stratigraphy of fluvial deposits (Norsk Hydro)	$50,000
3.	1996 - Sand wedge analogs (Norsk Hydro)	$22,700
4.	1996 - Award Mobil Foundation	$20,000
5.	1996-1997 - 3-D seismic interpretation, North Sea (Norsk Hydro) (Co-PI with Dr. Scott Smithson)	$80,000
6.	1996-1997 - Rock Springs Drilling Project (Norsk Hydro/UP/Slumberger) (Co-PI with Randi Martinsen)	$390,000

7.	1997-1998 - Rock Springs drilling project: Wyoming reservoirs (STEA) (Co-PI with Randi Martinsen)	$177,000
8.	1997-1998 - Mobil Foundation award	$30,000
9.	1997-98 PATH-project: San Jorge Basin fluvial reservoirs Argentina (YPF) (Co-PI with Dr. Paul Heller)	$250.000
10.	1997-2003 WOLF-consortium (Exxon, Amoco, Conoco, Statoil, Phillips, UPRC, Shell, Mobil)	$841.000
11.	1998-2000: Powder River Basin Reservoir Studies (EORI)	$80,000
12.	1999-2001: Characterization of Uintah Basin Sandbodies (EORI)	$75,000
13.	1999-2000: Albuquerque Basin Reservoirs. Burlington Resources (Co-PI with Dr. J. Steidtmann)	$40,000
14.	2000 : Green River Basin Fractures Project (UW Foundation)	$42,000
15.	2000-2001: Clinoform Research (Norsk Hydro)	$100,000
16.	2002-2002: Uintah Basin Project (Sinopec) (co-PI w P. Yin)	$230.000
17.	2002-2003: Sand Partitioning in Clinoforms (National Academy of Sciences) ; PI	$18,500
18.	2002-2004: Tidal signatures and architectures (FORCE) (co-PI with Bob Dalrymple & Shuji Yoshida)	$319,000
19.	2002-4: Middle Park Basin studies of lowstand sands (Norsk Hydro); PI	$120,000
20	2004-2005: WOLF (Shell, PDVSA, ConocoPhillips, Statoil, ExxonMobil, BP, BHP); PI	$260,000
21	2005: Tidal Signatures and Architectures (FORCE) (co-PI with R. Dalrymple)	$250,000
22	2005: Washakie Basin clinoform study (PhD stud C. Carvajal) (Devon Energy) : PI	$15,000
23	2006-2007: RioMAR (Shell, Conocophillips, BP, BHP, Statoil PDVSA) (co-PI with D. Mohrig)	$360,000
24.	2006-2007: BITE Tidal Bars (Aramco, Shell, ConocoPhillips, Nexen	

	Statoil) (co-PI with R. Dalrymple, Queens University)	$396,000
25,	2006-7: GOM studies (PhD student A. Petter) (NH); PI	$40,000
26.	2007-2009: Tyee studies in Oregon (ExxonMobil): PI	$98,000
27.	2007: PhD student support J. Aschoff (ConocoPhillips)	$20,000
28.	2008: RioMAR IA (Shell, Conocophillips, BP, BHP Billiton, ENI, StatoilHydro, PDVSA, Devon, Petrobras, BG-Group, Woodside); co-PI	$420,000
29.	2009-2010: RioMAR ; co-PI	$ 600,000
30.	2009-2010: BITE; co-PI	$ 252,000
31.	2009-2011: Karoo Shelf-Margins (Shell)	$ 177,240

EDITED BOOKS

LARUE, D. & STEEL, R. J. (Editors) 1983. Shallow-marine rock successions. **Special Publication of the SEPM Pacific Section.**

KOSTER, E. H. & STEEL, R. J. (Editors), 1984. Sedimentology of Gravels and Conglomerates. **Memoir Canadian Society of Petroleum Geologists 10.**

NEMEC, V. & STEEL, R. J., (Editors) 1988. Fan Deltas. Blackie & Sons, London, 444pp.

FROSTICK, L. & STEEL, R. J., (Editors) 1990. Tectonic Controls & Signatures in Sedimentary successions. **International Association of Sedimentologists, Special Publication 20, 520pp.**

STEEL, R.J., FELT, V., JOHANNESEN, E. & MATHIEU, CHR. (Editors), 1995: Sequence Stratigraphy on the Northwest European Margin. Elsevier, Amsterdam, 608 pp.

MARZO, M. & STEEL, R.J. (Editors) 2000. Sedimentology & Sequence Stratigraphy of Eocene Clastic Wedges, SE Ebro Basin, NE Spain**. Special Issue of Sedimentary Geology.**

HAMPSON, G. J., STEEL, R. J., BURGESS, P. M. and DALRYMPLE, R. W. (2008). Recent Advances in Shallow-Marine Stratigraphy: Perspectives and applications. **SEPM Special Publication 90**

HENRIKSEN, S., HAMPSEN, G. J., HELLAND-HANSEN, W.,JOHANNESSEN, E. P., & STEEL, R. J. (2009). The Trajectory Concept in Stratigraphy. **Basin Research Special Issue,** October 2009.

PEER-REVIEWED PUBLICATIONS (articles with >30 citations are labelled)

CITATIONS 2009: h-index 30; from ISI (mainstream journals) plus Google Scholar (Special Publications)

1. STEEL, R.J., 1971: New Red Sandstone movement on the Minch Fault. **Nature**, 234, 158-159.

2. STEEL, R.J., 1974: Continental sedimentation in the New Red sandstone of the Hebridean Province of Scotland. **Jour. Sedim. Petrol.**, 44, 336-357.

3. STEEL, R.J., 1974 : Cornstone (fossil caliche) – its origin, stratigraphic and sedimentalogical significance in the New Red Sandstone of western Scotland. **Jour. of Geology**, 82, 351-369. (42 citations)

4. STEEL, R.J., NICHOLSON, R. & KALENDER, L., 1975: Triassic sedimentation and paleogeography in Central Skye, **Scott. Jour. Geol.,** 36, 1-13

5. STEEL, R.J., & WILSON, A.J. 1975: Sedimentation and tectonism (?Permo-Triassic) on the margin of the North Minch Basin , Lewis. **Jour. of the Geol. Soc. of London,** 131, 183-202

6. STEEL, R.J.,1976: Devonian basins of western Norway – sedimentary response to tectonism and varying tectonic context. **Tectonophysics**, 36, 207-224. (78 citations)

7. STEEL, R.J., 1977: Observations on some Cretaceous and Tertiary sandstone bodies in Nordenskjold Land, Svalbard. **Norsk Polarinstitutts Arbok**, 1976, 43-68

8. STEEL, R.J., 1977: Triassic rift basins of N.W. Scotland – their configuration, infilling and development. Northern North Sea Symposium, **Norwegian Petroleum Society, 18pp.**

9. STEEL,R.J. 1977: Cornstone (fossil caluche) – its sedimentological and stratigraphic significance in the New Red Sandstone of Western Scotland. In: Ancient Continental sediments. (Ed. By Van Houten.) **Benchmark Papers in Geol**. 43

10. STEEL,R.J. MAEHLE,S., NILSEN,H., ROE, S.L., & SPINNANGER, A., 1977: Coarsening-upward cycles in the alluvium of Hornelen basin (Devonian), Norway: Sedimentary response to tectonic events. **Bull. Geol. Soc. Am**. 88, 1124-1134. (116 citations)

11. STORETVEDT. K.M., STEEL, R.J. 1977: Palaeomagnetic evidence for the age of the Stornoway Formation. **Scott. Jour. Geol.**, 13, 263-269.

12. LARSEN, V., SPINNANGER, A. & STEEL,R.J.. 1977: A field guide to the Hornelen Basin (Devonian) of Western Norway. **Norwegian Petroleum Society, 78 pp.**

13. STEEL,R.J., MAEHLE, S. , NILSEN, H. & ROE, S.L., 1978: Coarsening-upward cycles in the alluvium of Hornelen Basin (Devonian) Norway. Sedimentary response to tectonic events: Reply. **Geol. Soc. Am. Bull.,** 90, 121-124.

14. STEEL, R.J., & AASHEIM, S.J., 1978: Patterns of sandstone sedimentation in a rapidly subsiding basin. In:

Fluvial Sedimentology (Ed. By A.D. Miall.), **Can. Soc. Petrol. Geol. Memoir** 5, 385-412 (32 citations)

15. LARSEN, V. & STEEL, R.J., 1978: Sedimentary history of a debris flow dominated alluvial fan – a study of textural inversion. **Sedimentology**, 25, 37-59. (77 citations)

16. IRELAND, R.J., POLLARD, J.E., STEEL, R.J. & THOMPSON, D.B., 1978: Intertidal sediments and trace fossils from the Waterstones (Scythian/Anisian) at Daresbury Cheshire. **Proc. Yorkshire Geol. Soc.,**41, 399-436.

17. FAERSETH, R. & STEEL, R.J., 1978: Silurian Conglomerate sedimentation and tectonics within the Fennoscadian continental margin, Sunhordland, Western Norway. J. **Norwegian Geological Society**. 58, 145-161.

18. STEEL, R.J. 1978: Late-orogenic Devonian basin formation in the Western Norwegian Caledonides. **Geol. Survey Can. Spec. Paper** 78, 57-62.

19. POLLARD, J.E. & STEEL, R.J. 1978: Intertidal sediments in the Achenhew Beds (Triassic) of Arran. **Scott. Jour. Geol.** 14, 317-38.

20. STEEL, R.J., GJELBURG, J. & HARR, G., 1978 Helvetiafjellet Formation at Festningen (Barremian). Soitbergen - A field guide. **Norwegian Polar Institute Arbok** for 1977, 111-128.

21. GJELBURG, J. & STEEL, R.J., 1979: Middle Carboniferous Sedimentation in relation to Tectonic, Climatic, and Sea Level Changes on Bjornoya and Spitsbergen. Norwegian Sea Symposium. **Norwegian Petroleum Society, Tromso. 14 pp.**

22. STEEL,R.J., DALLAND, A., KALGRAFF, K. & LARSEN,V., 1979: An Outline of th History of Sedimentation of Svalbard's Central Tertiary Basin. Norwegian Sea Symposium. **Norwegian Petroleum Society, Tromso. 23 pp.**

23. STEEL, R.J., & GLOPPEN, T.G., 1980: Late Caledonian Basin Formation, Western Norway signs of strike-slip tectonics during infilling. In: Sedimentation at Oblique Slip Margins. (Ed. By H. Reading, and P. Balance), **IAS Spec. Public., 4,** 79-103 (56 citations)

24. NEMEC, W., POREBSKI, S.J., STEEL, R.J., 1980 : Structure and texture of resedimented conglomerates; examples from Ksiaz Formation (Fammenian-Tournaisian) , S.W. Poland, **Sedimentology**, 27, 519-538. (44 citations)

25. CLEMMENSEN, L., JACOBSEN, V., & STEEL,R.J.,1980: Triassic facies sequences and basin development, East Greenland, Scotland and N. North Sea. North Sea Reservoirs, **Norwegian Petroleum Society, Geilo, 15 pp.**

26. POLLARD, J.E. & STEEL, R.J., 1981: Intertidal sediments in Triassic of Arran, (Scotland) – discussion and reply. **Scott. Jour. Geol.,** v. 17, 225-226.

27 GJELBERG, J. & STEEL, R. J.,1981: An outline of Lower- Middle Carboniferous Sedimantation of Svalbard. Effects of Tectonic, Climatic and Sea Level Changes in Rift Basin Sequences. **Can. Soc. Petrol. Geol., Memoir** 7, 543-561

28. GLOPPEN, T. J. &STEEL, R. J., 1981: The deposits, internal structure and geometry in six alluvial fan-fan delta bodies (Devonian, Norway) – a study in the significance of bedding sequences in conglomerates. In: **SEPM Spec. Public. 31**, 49-69. (101 citations)

29. STEEL, R.J., DALLAND, A., KALFRAFF, K.& LARSEN, V., 1981: The Central Tertiary Basin of Spitsbergen: sedimentary development of a sheared margin basin. **Can. Soc. Petrol.Geol. Memoir 7**, p. 647-664.

30. POLLARD, J.E., STEEL, R.J. & UNDESRUD, E., 1982: Facies sequences and trace fossils in lacustrine/fan-delta deposits, Hornelen Basin (M.Devonian), Western Norway.

Sedimentary Geology, 32, 63-87. (45 citations)

31. GJELBERG, J. & STEEL, R.J., 1982: Middle Carboniferous marine transgressions, Bjornoya, Svalbard: facies sequences from an interplay of sea level changes and tectonics. **Geol. Jour.** 18, 1-19.

32. STEEL, R.J. & THOMPSON, D. B., 1982: Structure and texture in Triassic braided stream conglomerates in Sherwood Sandstone Group, N. England. **Sedimentology,** 30, 341-367. (103 citations)

33. GLOPPEN, T.G. & STEEL, R.J., 1982: The deposits, internal structure and geology in six alluvial fan-fan delta bodies (Devonian, Norway) – reply: **Journal of Sedim. Petrol.**, 53, 327-329.

34. LARUE, D.K. & STEEL,R.J. (Editors) , 1983: Cenozoic Marine Sedimentation, Pacific Margin, U.S.A. **SEPM Pacific Section Special Publication.**

35. KOSTER, E.H. & STEEL, R.J. (Editors), 1984: Sedimentology of Gravels and Conglomerates. **Can. Soc. Petrol. Geol. Memoir** 10. (49 citations)

36. NEMEC, W. & STEEL, R.J. , 1984: Alluvial and coastal conglomerates: their significant features and some comments on gravally mass-flow deposits. In: 'Sedimimentology of Gravels & Conglomerates'. (Ed. By E.H. KOSTER & R.J. STEEL.) **Can. Soc. Petrol. Geol., Memoir** 10, p. 1-31. (279 citations)

37. NEMEC,W., STEEL,R.J., POREBSKI, S.J.& SPINNANGER, A., 1984: Domba Conglomerate, Devonian, Norway: Process and lateral variability in a mass flow-Dominated, lacustrine fan-delta. In: Sedimentology of Gravels & Conglomerates. (Ed. By E.H. KOSTER & R.J. STEEL.) **Can. Soc. Petrol. Geol.., Memoir** 10, 295-320. (41 citations)

38. KLEINSPHEN, K., STEEL, R.J., JOHANNESEN, E. & NETLAND, A., 1984: Conglomeratic fan-delta sequences (late Carboniferous-early Permian), western Spitsbergen. In: Sedimentology of Gravels and Conglomerates (Ed. By E.H. KOSTER & R.J. STEEL.) **Can Jour. Petrol. Geol., Memoir** 10, 279-294. (36 citations)

39. STEEL, R.J. & WORSLEY, D., 1984: Svalbards post- Caledonian strata, an atlas of sedimentational patterns and paleogeographie evolution. In: Petroleum Geology of the European Margin (Ed by A.M. SPENCER.) Norwegian Petroleum Society., p. 109-135. (74 citations)

40. ROE, S.L. & STEEL, R.J. 1985: Sedimentation, sea level rise and tectonics at theTriassic-Jurrasic boundary (Statfjord Formation), Tampen Spur, northern North Sea. **Jour. Petrol. Geol**., 8, 163-186.

41. STEEL, R,J., SIEDLECKA, A. & ROBERTS, D., 1986: Devonian Basins of Norway and their Deformation. In: Geology of Scandinavian Caledonides (Ed. by D.Gee & B.A. Sturt.) Wiley & Sons, 15pp. (35 citations)

42. STEEL, R.J., GELBURG, J., HEELAND-HANSEN, W., KLEINSPHEN, K. NOTTVEDT, A. & RYE-LARSEN,M. 1986: The Tertiary strike-slip basins and orogenic belt of Spitsbergen. In: Strike-Slip Deformation Basin Formation and Sedimentation (Ed. by K.Biddle and N. Christie-Blick). **SEPM Spec Public.** 37, 339-361

43 RONNING,K. & STEEL, R.J., 1986: Transgressive reservoir-sand sequences and architecture of Tarbert Formation (M. Jurassic). In: North Sea Oil and Gas Reservoirs (Ed. by J. Kleppe et.al.) Graham & Trotman, London, p. 169-176.

44. GRAUE, E., HELLAND-HANSEN, W., LOMO, L. RYSETH, A.& STEEL, R.J.1987:

Advance and retreat of the Brent delta-system. In: Petroleum Geology of Northwest Europe (Ed. by J. Brooks & K. Glennie) Graham & Trotman p. 915-937.

45. NEMEC, W. & STEEL, R.J. (Editors), 1988: Fan Deltas- Sedimentation and Tectonic Settings, Blackie, Glasgow. (52 citations)

46. STEEL, R.J. 1988: Skewed fan-delta bodies and coarsening-upward sequences in Hornelen Basin, Norway. In: Fan Deltas (Ed by W. Nemec & R.J. Steel.) Blackie, Glasgow, p. 75-84.

47. NEMEC, W. & STEEL, R.J. 1988: What is a Fan Delta and how do we recognize it? In: Fan Deltas (Ed by W. Nemec & R.J. Steel.) Blackie, Glasgow, p. 3-14. (61 citations)

48. NEMEC, W., STEEL, R.J., COLLINSON, J.D., PRESTHOLM, E. & OKSNEVAD, I. E., 1988: Anatomy of a collapsed and re-established delta front in the lower Cretaceous of eastern Spitsbergen: Gravitational sliding and sedimentation processes. **Am. Assoc. Petrol. Geol. Bull**. 72. 454-476. (54 citations)
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49. NOTTVEDT, A., RASMUSSEN, E. & STEEL, R.J. 1988.:Tertiary sedimentation and basin development on Svalbard and the western Barents Shelf. In: Teriary Volcanism in the NE. Alantic (Ed. by A. Morton.). **Geol. Soc. London Spec. Public.** ,39

50. NEMEC, W. STEEL, R.J., GJELBURG, J., COLLINGSON, J.D., PRESTHOLM, E., OKSNEVAD, E.E. & WORSLEY, D., 1988: Exhumed rotational slides and scar-infill features in a Cretaceous delta front, eastern Spitsbergen. **Polar Research**, 6, 105-112

51. HELLAND-HANSEN, W., STEEL, R.J. & NAKAYAMA, I. 1988: Review and computer modeling of Brent Group stratigraphy in the northern North Sea: In: Deltas: Sites and Traps for Fossil Fuels (Ed by M.K. Whately & K.T. Pickering). **Geol. Soc. London Spec Public**. 41, 237-252

52. STEEL, R.J. & WINSNES, T.., 1989: Braganzavagen Map Sheet, Spitsbergen: **Norwegian Polar Institute, Oslo, 15pp. 12 figs.**

53. STEEL, R.J. 1989: Reservoir sequences of the Norwegian Shelf- some advances in Reservoir Description. **International Energy Agency, Stanford, California. 15pp.**

54. GABRIELSEN, R.H., FAERSETH, R.B., STEEL, R.J. IDIL, S., KLOVJAN, O.S., 1990: Architectural styles of basin fill in the Northern Viking Graben. In: Tectonic Evolution of the Northern Sea Rifts (Ed by R.F.P. Hardman& J. Brooks.). **Geol. Soc. London Spec. Public.,** 55, p. 158-180.

55. STEEL, R.J. & RYSETH, A., 1990: Triassic-Early Jurassic succession in the northern North Sea: megasequence stratigraphy and intra-Triassic tectonics. In: Tectonic events responsible for Britain's oil and gas. (Ed. by R.F.P. Hardman & J. Brooks.) **Geol Soc. London, Spec. Public.** 55, p. 139-168.

56. FALT, L. M. & STEEL, R.J.., 1990: A new palaeogeographic model for the Brent delta-system: Discussion: **Jour. Geol. Soc., London,** 147, 1085-1090.

57. HELLAND-HANSEN, W., ASHTON, M., LOMO, L. & STEEL R.J., 1991: Advance and retreat of the Brent delta: recent contributions to the depositional model. In: Geology of the Brent Group (Ed. by A.C. Morton, A.. Haseldine, M. Giles & S. Brown.) **Geol. Soc. London, Spec. Public**. 61, 25 pp.

58. STEEL, R.J., 1992: Geological Reservoir Description, macroscopic hetergeneties. In: Recent Advances in Improved Oil Recovery Methods for North Sea Sandstone Reservoirs (Ed. by S. Skjaeveland & Kleppe.) Spor Monograph, **Norwegian Petroleum Directorate, p. 113-126.**

59. JOHANNESSES, E.P., & STEEL, R.J. (Editors) 1992: Mid Carboniferous extension and rift sequences in the Billefjorden Trough, Svalbard. **J. Norwegian Geological Society,** 72, 35-49.

60. DREYER, T., FALT, L. M., HOY, T., KNARUD, R. & STEEL, R .J. , 1992 : Qualified fluvial outcrop data for reservoir modeling from the Esscanilla Formation, Sobrarbe sub-basin, Spanish Pyrenees. **IAS Spec. Publication 18**

61. FROSTICK, L.E. & STEEL, R.J. (Editors), 1993: Tectonic Controls and Signatures in Sedimentary Successions. **IAS Special Publication** 20.

62. FROSTICK, L.E. & STEEL, R.J., 1993: Sedimentation in divergent plate-margin basins. In: Tectonic Controls and Signatures in Sedimentary Successions (Ed by L.E. Frostick & R.J. Steel), **IAS. Spec. Public**. 20, p. 111-128.

63. STEEL, R.J., 1993: Triassic-Jurassic megasequence stratigraphy in the northern North Sea: Rift to post-Rift evolution. In: Petroleum Geology of Northwest Europe (ed. By J.R. Parker) **Geol. Soc. London**, p. 299-315. **(44 citations)**

64. OLAUSSEN, S., LARSEN, B. & STEEL, R.J., 1994: The Upper Carboniferous-Permian Oslo Rift: basin fill in relation to tectonic development. Proceedings of the Pangea Conference. **Can. Soc. Petrol. Geol., Memoir** 17.

65. MELLERE, D. & STEEL, R.J., 1994: Geometric and facies relationships between forced regressive shoreface and lowstand/transgressive esturine sandbodies: the Hatfield Member of the Haystack Mountain Formation, Wyoming, U.S.A. **Short paper, AAPG Helberg Conference, Paris, 5 pp.**

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