

Professor Knut Bjørlykke - Forkortet CV

Omtaler og presentasjoner:

- <https://pensjonistakademiet.com/2019/07/18-9-19-knut-bjorlykke-forbruk-og-produksjon-gruvedrift-av-de-geologiske-metallressurser-utfordringer-for-miljoet-globalt-og-lokalt/>
- <http://100years.aapg.org/play/articleid/43145/geolegends-knut-bjorlykke>
- <http://100years.aapg.org/geolegends/person/articleid/42569/knut-bjorlykke>
- <http://www.geoforskning.no/nyheter/olje-og-gass/1577-big-in-china>

Series (video/pdf):

- <http://100years.aapg.org/geolegends/videos>
- http://www.youtube.com/watch?v=knIS_wMV-rc
- http://www.searchanddiscovery.com/preview/EminIsayev/documents/2017/51449bjorlykke/ndx_bjorlykke.pdf
- http://fpol.no/wp-content/uploads/2018/05/Forskningspolitikk-2-2018_side-20-21.pdf

Mitt geologiske liv: PDF fra foredrag:

<https://www.mn.uio.no/geo/om/aktuelt/arrangementer/arkiv/2019/bilder/mitt-geologiske-liv-foredrag-10.-mai-2019.pdf>

En viktig stemme i samfunnsdebatten: Intervju i geoforskning.no:

<http://www.geoforskning.no/nyheter/klima-og-co2/9-nyheter/1457-en-viktig-stemme-i-samfunnsdebatten>

Om Oslofeltet (film): Ekskursjon i Oslo-området - 22 forskjellige GEO-lokaliteter

<https://www.mn.uio.no/geo/tjenester/kunnskap/geologi-oslofeltet/index.html>

Curriuleum Vitae

Knut Bjørlykke, Professor Emeritus, Dept. of Geosciences, University of Oslo, Norway

Born 7th June 1938 in Trondheim, Norway.

- ✚ [Eksamen Artium \(High School\) 1957](#)
- ✚ [Military Service \(1958-1959\) \(School of military engineering\)](#)
- ✚ 1964 Cand Real Degree in Geology at the University of Oslo,.
- ✚ 1974 Dr. Philos. Degree at the University of Oslo

Academic positions:

2008 - Professor Emeritus, Department of Geosciences, University of Oslo.

1984 - 2008 Professor of Sedimentology and Petroleum Geology, Department of Geology, University of Oslo.

1976 – 1984 Professor of Petroleum Geology, Dept. of Geology, University of Bergen, Norway.
 1971 - 1976 1st Amanuensis (senior lecturer) ,Department of Geology. The University of Oslo.
 1969 -1971 University Lecturer at Makerere University, Kampala, Uganda.
 1965 - 1969 Amanuensis (lecturer) at Department of Geology, University of Oslo.
 1963 - 1965 Research Assistant at Department of Geology, University of Oslo.

Administrative positions

Head of the Petroleum Geology programme at the University of Bergen from 1976-84
 Vice Dean at the Faculty of Science at the University of Bergen, 1978-1979
 Head of Geology Department, University of Bergen, 1981-1984
 Head of Geology Department, University of Oslo 1984-1986

Chairman of “Professorforeningen /Academic Forum at the University of Oslo (2006-2008)

Visiting research positions:

1998 (4 month) Visiting Professor at the University of Bern, Switzerland, and University of Newcastle, UK
 1994 (4 month) Visiting Professor at Colorado School of Mines, Golden, Colorado, USA
 1990-1991 (6 month) Visiting Professor at University of California, Santa Barbara, USA
 1981-1982 Visiting Professor for one year at University of California, Santa Barbara, USA
 1966 Visiting Research Fellow at the Sedimentology Research Laboratory, University of Reading, UK

Awards and distinctions:

Reusch Medal for younger researchers from the Norwegian Geological Society, 1970.
 Member of the” Det Norske Videnskaps-Akademi, Norwegian” Academy of Science and Letters since 1985.

Received Statoil’s Research Prize (Statoils Forskerpris) 1991 (First year the prize was awarded).

Awarded DGMK-Kolleg 1992 and was invited by "Deusche Wissenschaftliche Gesellschaft für Erdöl, Erdgass und Kohle" to give a series of Honorary Lectures sponsored by this society at German Universities.

Elected Honorary Fellow of the Geological Society of London in 1992.

Best paper award (1994) from the American Chemical Society for paper by Karlsen, D., Nedkvitne, T. Bjørlykke, K. and Larter, S. (Geochimica et Cosmochimica Acta 57, 3641-3659)
 Appointed The Distinguished Lecturer by the American Association of Petroleum Geologists for a lecture tour of Europe, 1996-97 and for North America 1999-2000.

Elected to the Russian Akademy of Natural Science as a Foreign member in. 2001and awarded the Kapitsa medal of honour for outstanding contributions to the field of Petroleum Sciences.

Boyd Visiting Lecturer at University of Texas, Austin, for 2003.

Received the Grover E. Murray Memorial Distinguished Educator Award for 2003 from the American Association of Petroleum Geologists.

Member of "Det Kongelige Norske Videnskabers Selskap" (The Royal Norwegian Society of Sciences and Letters) from 2008.

Received the "Brøggerprisen" (the Brøgger Prize) from the Norwegian Geological Society for 2009.

Received the "NTVAs Ærespris" (Prize of Honour) for 2009. (Norges Tekniske Vitenskapsakademi - Norwegian Academy of Technological Sciences - NTVA).

(<http://www.ntva.no/2013/12/13/prisvinnere/>)

2017. Appointed GeoLegend by the AAPG on the 100 year anniversary of AAOG in Houston April 2017.

Publications & Talks:

Recent Talks:

Knut Bjørlykke, 2017. History of Norwegian Petroleum Exploration and its impact and its impact on Norwegian Geosciences. What would Norwegian Geosciences have been without the Petroleum Industry? Lecture at the EAGE meeting. Paris. June 2017.

Knut Bjørlykke, 2017: Miljøproblemer knyttet til lagring av gruveslam og andre former for utvinning av naturressurser (Storage of mine waste. Trenger vi mere geologisk rasjonalitet? Norsk Geologologisk Forening Oslo, Vinterkonferansen January. With contribution from Per Aagaard & Helge Hellevang, Dept. of Geosciences (UiO), and Jørgen Stenersen (Dept. of Biology, UiO)

Publications:

184. Bjørlykke, K. 2019. Early history of petroleum exploration offshore Norway and its impact on geoscience teaching and research. Norwegian Journal of Geology v. 99. P.1-17.

183. Ehrenberg S:N, Walderhaug O. Bjørlykke, K, 2019. Discussion of "Microfacies, diagenesis and oil emplacement of the Upper Jurassic Arab-D carbonate reservoir in an oil field in central Saudi Arabia (Khurais Complex) " by Rosales et. al 2018. Marine and Petroleum Geology 100. 52 -53

182. Knut Bjørlykke¹; Line Hedvig Line¹; Jens Jahren¹; Nazmul Haque Mondol^{1,2}; Per Aagaard¹; Helge Hellevang^{1,3}. 2017 Compaction of sand and clay; Constraints from experimental compaction, chemical reactions and fluid flow during burial – an overview (1) Department of Geosciences, University of Oslo, Oslo, Norway; (2) Norwegian Geotechnical Institute (NGI), Oslo, Norway; (3) The University Centre in Svalbard (UNIS), Longyearbyen, Norway. Extended Abstract AAPG Ice Houston 2017,

181. Knut Bjørlykke 2017. Petroleum Geoscience. From sedimentary environments to rock physics. Chinese Edition. 554 p (Petroleum press- www.petropub.cn)

180. Nooraiepour, M., Mondol N.H. Hellevang, H. and Bjørlykke K. 2017 Experimental mechanical compaction of reconstituted shale and mudstone aggregates: Investigation of petrophysical and acoustic properties of SW Barents Sea cap rock sequences. *Marine and Petroleum Geology*.80, 265-292.
179. Mangerud, Gunn; Vigran, Jorun Os; Bjørlykke, Knut; Riding, James B. 2016 A biography and obituary of Svein B. Manum (1926–2015). *Palynology* 2016;Volum 40.(3) s. iii-x UiB UiO. DOI: 10.1016/j.marpetgeo.2016.12.003
178. Ehrenberg, S. N. and Bjørlykke, K. 2016. Comments regarding hydrothermal dolomitization and porosity development in the paper” Formation mechanism of deep Cambrian dolomite reservoirs in the Tarim basin, Northwestern China” by Shu et al. (2015). *Marine and Petroleum Geology* 76, 480-481.
- 177 Kelai Xia, Yingchang Caoa, Jens Jahren, Rukai Zhuc, Knut Bjørlykke, Xiangxiang Zhang, Laixing Cai, Helge Hellevang. 2015 Quartz cement and its origin in tight sandstone reservoirs of the Cretaceous Quantou formation in the southern Songliao basin, China. *Marine and Petroleum Geology*.
- 176 Bjørlykke, K. (Ed) 2015 *Petroleum Geoscience. From sedimentary environments to rock physics. Second Edition. Springer Verlag* 662 p
- 175 Bjørlykke, K. 2014- Relationships between depositional environments, burial history and rock properties. Some principal aspects of diagenetic processes in sedimentary basins. *Sedimentary Geology* 301, 1–14
- Hellevang, H., Bjørlykke, K. and Aagaard P. 1912. Is the role of Ca^{++} in stabilizing carbonates during ocean acidification underestimated ? *Royal Society of Chemistry* 2012, 1-3
DOI : 10.1938/x0xx0000x
- 174 Bjørlykke, K. and Jahren, J. 2012. Open closed geochemical systems during diagenesis in sedimentary basins: Constraints on mass transfer during diagenesis and the prediction of porosity in sandstone and carbonate reservoirs. *AAPG Bull*, 96.2193-2214,
173. Gundersen, E. ,Flekkøy,E.G., Bjørlykke, K, Feder, J. , Jamtveit, 2011. Fracture spacing during hydro-fracturing of cap-rocks. *Geofluids*. 11, 280-293.
- 172 Ehrenberg, S.N., Walderhaug O. and K. Bjørlykke 2012, Carbonate porosity creation by mesogenetic dissolution : Reality or Illusion? *AAPG Bull*. 96, 217-233.
- 171 Mast, T.E, Jahren, J. and Bjørlykke, K. 2011 Diagenetic controls on reservoir quality in Middle to Upper Jurassic sandstones in the South Viking Graben. *AAPG Bull*. 95, 1937-1958.

169 Bjørlykke, K: 2011: Open-system chemical behavior of Wilcox Group Mudstones. How is large scale mass transfer at great burial depth in sedimentary basins possible? A discussion. *Marine and Petroleum Geology*, 28, 1381-1382168

Fawad, M. Mondol, N.H., Jahren, J., Bjørlykke, K 2011. Mechanical compaction and ultrasonic velocity of sands with different texture and mineralogical composition. *Geophysical Prospecting* 59(4):697 - 720 · April 2011

Mondol, N.H. Jahren, J. Berre, T., Grande, L. and Bjørlykke K.2011
 Permeability Anisotropy in Synthetic Mudstones –an Experimental study-
 73rd EAGE Conference & Exhibition incorporating SPE EUROPEC 2011
 Vienna, Austria, 23-26 May 2011

168 Bjørlykke, K. 2010. *Petroleum Geoscience. From Sedimentary Environments to Rock Physics* Springer 508 p

167 Thyberg, B. , Jahren, J. Winje, T. Bjørlykke, K. Faleide, J.I. Marcussen Ø. 2010. Quartz cementation in Late Cretaceous mudstones, Northern North Sea. Changes in rock properties due to dissolution of smectite and precipitation of micro-quartz crystals. *Marine and Petroleum geology*, 27, 1752-1764.

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165 Manzar F., Mondol, N., H. Jahren, J. and Bjørlykke, K. 2010. Microfabric and rock properties of experimentally compressed silt-clay mixtures. *Marine and Petroleum Geology* 27.1698-1712

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163 Croize´. D. Ehrenberg, S.N., Bjørlykke, Renard, F., Jens Jahren 2010. Physical properties of bioclastic carbonates: Implications for porosity controls during burial. *Marine and Petroleum Geology* 27.1765-1774.

162 Croize´.D, Bjørlykke, K., Jahren, J. Renard, F.2010. Experimental mechanical and chemical compaction of carbonate sand. *J. Geophysical Research- solid Earth* 115 p

161 Croize´. D. Renard, F., Bjørlykke, K., Dysthe, D. 2010. Experimental calcite dissolution under stress: Evolution of grain contact microstructure during pressure solution creep. *J. Geophysical Research- solid Earth* 115p

160 Marcussen, Ø, Faleide, J. I Jahren, J. and Bjørlykke, K. 2010. Mudstone compaction curves in basin modelling: a study of Mesozoic and Cenozoic Sediments in the Northern North Sea. *Basin Research* 22, 324-340.

159 Mondol, N. H., Fawad, M., Grande, L., Jahren, J., and Bjørlykke, K., 2009. VS estimation in mudrocks – Implications about mineralogy and grain size. 71th EAGE (European Association of Geoscientists and Engineers) Conference and Exhibitions, 8-11 June 2009, Amsterdam, Netherlands. Extended Abstract, Z012.

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155 Thyberg B., Jahren, J., Winje, T., Bjørlykke, K. & Faleide, J.I. (2009). From mud to shale: rock stiffening by micro-quartz cementation. **First Break**, 27, 27-33.

154. Marcussen Ø, Thyberg, B., Jahren, J., Winje, T., Bjørlykke, K., Faleide J.I., 2009. Physical properties of Cenozoic mudstones from the northern North Sea: Impact of clay mineralogy on compaction trends. *AAPG Bull* 93,127-150

153. Mondol, N.H., Fawad, M., Grande, L., Jahren, J., & Bjørlykke, K., 2009. Vs estimation in mudrocks – Implications about mineralogy and grain size. **EAGE Conference & Exhibition**, Extended Abstract, Z012.

152 Voltolini, M., Wenk, H-R, Mondol, N.H., Bjørlykke, K., & Jahren, J., 2009. Anisotropy of experimentally compressed kaolinite-illite-quartz mixtures. **Geophysics**, v.74, p. D13- D23 January-February 2009.
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151. Mondol, N.H., Fawad, M., Jahren, J., & Bjørlykke, K., (2008). Synthetic mudstone compaction trends and their use in pore pressure prediction. **First Break**, v. 26, 43-51..

150 Mondol, N.H. Bjørlykke, K. and Jahren, J. 2008. Experimental compaction of clays: Relationships between permeability and petrophysical properties in mudstones.. *Petroleum Geoscience*.14, 319-337

149. Mondol, N, Jahren, J. Bjørlykke, K and Brevik, I. 2008. Elastic properties of clay minerals. *The Leading Edge* 27, pp. 758-770

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- 147 Mondol, N. H. , Bjørlykke, K., Jahren J., Høeg, K. 2007. Experimental mechanical compaction of clay aggregates – Changes in physical properties of mudstones during burial. *Marine and Petroleum Geology* 89, 289-311.
- 146 Nygård, R., Bjørlykke, K., Høeg, K. and Hareland, G.2 007. The effect of diagenesis on stress-strain behaviour and acoustic velocities in sandstones, Presented at: 1st Canada-U.S. Rock Mechanics Symposium, May 27-31, 2007, Vancouver, British Columbia , Canada
- 145 Mondol, N.H. , Bjørlykke, K., Jahren, J., Marcussen, Ø., Peltonen, C.B. 2007. Prediction of mechanical compaction in mudstones and its implication f. or basin modelling AAPG Hedberg Conference on “Basin modelling Perspectives: Innovative developments and Novel Applications 6-9 May. The Hague. The Netherlands. Abstract
144. Bjørlykke K: 2006. Modelling of fluid flow and overpressure- A discussion. *Norwegian Journal of Geology* 86, 439-441
143. Storvoll, V. Bjørlykke, K. and Mondul, N.H. 2006. Velocity-depth trends in Mesozoic and Cenozoic sediments from the Norwegian Shelf: Reply. *AAPG Bull.* 90, 1145-1148.
142. Bjørlykke, Knut 2006. Effects of compaction processes on stress, faults, and fluid flow in sedimentary Basins. Examples from the Norwegian margin. In: Buiters, S.H.J & Schreurs (eds), G. Analogue and Numerical Modelling of Crustal-Scale Processes. *Geol.Soc. London., Special Publication No 253*, 359-379.
- 141 Bjørlykke Knut, Kaare Høeg, Jan Inge Faleide, and Jens Jahren 2005: **When do faults in sedimentary basins leak?** Stress and deformation in sedimentary basins; examples from the North Sea and Haltenbanken Offshore Norway – a discussion. *American Association of Petroleum Geologists, Bull.* 89, 1019-1031
- Gundersen, Unn Elisabeth; Flekkøy, Eirik Grude; Bjørlykke, Knut; Feder, Jens; Jamtveit, Bjørn.** Interactions and spacing of hydrofractures through cap-rocks. *Geofluids* 2005
UiO
- 140 Bjørlykke, K. Chuhan, F, Kjeldstad, A. Gundersen, E. Lauvrak, O. and Høeg, K. 2004. Modelling of sediment compaction during burial in sedimentary basins. In : Stephansson O. Hudson, J. and King, L (eds). *Coupled thermo-hydro-mechanical-chemical processes in geo- systems.* p 699-708 Elsevier
- 139 Bjørlykke, K. 2004. Grover E. Murrey: Memorial Distinguished Educator Award- AAPG Honorees 2004-Response. *AAPG Bull* 88, 674-675.
- 138 Karlsen, D.A., Skeie, J.E., Backer-Owe, K., Bjørlykke, K., Olstad, R., Berge, K., Cecchi, M., Vik, E. & Schaefer, R.G. 2004. Petroleum migration, faults and overpressure. Part II. Case history: The Haltenbanken Petroleum Province, offshore Norway. In: Cubitt, J.M., England, W.A. & Larter, S. (Eds.), *Understanding petroleum reservoirs: Towards an integrated reservoir engineering and geochemical approach.* *Geol. Soc. Lond. Spec. Publ.*, **237**, 305–372.

137. Storvoll, V. Bjørlykke, K. and Mondul, N.H. 2005. Velocity-depth trends in Mesozoic and Cenozoic sediments from the Norwegian Shelf. AAPG Bull 89, 359-381

136. Nygård, R. Gutierrez, M. Høeg, K. and Bjørlykke, K. 2004. Influence of burial history on microstructure and compaction behaviour of Kimmeridge Clay. Petroleum Geoscience 10, 269-270

135. Kjeldstad, A. Chuhan, F.A. Høeg, K. and Bjørlykke, K. 2004. Cataclastic shearband formation in sand at high stresses- An analogue experimental model and its relevance for faults in sedimentary basins. Accepted J. of structural Geology.

134 Storvoll, V. and Bjørlykke, K. 2004 Sonic velocity and grain contact properties in reservoir sandstones. Petroleum Geoscience. 10, 215-226.

134b Skeie, J.E., Primeo, R.D., Karlsen, D.A. An integrated basin modelling study applying asphaltene kinetics from reservoir petroleum in the Snorre Area, Northern North Sea. Geol. Soc. London. Spec. Publ. D1 2004 237, 0109

133 Bjørlykke, K. 2004. Faults, fractures and fluid flow in sedimentary basins. Extended Abstract from Geomod 2004, Emmeten, Lucerne, Switzerland. Bollettino di Geofisica, Teorica ed applicata. V.45 .N1 supplement 293-296.

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131. Bjørlykke, K. 2003 Compaction (consolidation) of sediments. In: Middleton G.V (Ed) Encyclopedia of Sediments and Sedimentary Rocks. p 161-168. KLUWER ACADEMIC PUBLISHERS

130 Chuhan, F.A., Kjeldstad, A. Bjørlykke, K. and Høeg, K. 2003 Experimental compression of loose sands: Relevance to porosity reduction during burial in sedimentary basins. Canadian Geotechnical Journal. 40, 995-1011

129 Kjeldstad, A., J., Skogseid, J., Langtang, H.P. K., Bjørlykke, K. and Høeg, K. 2003 Differential loading by prograding sedimentary wedges on continental margins: an arch forming mechanism. Journal of Geophysical Research Vol.108, 2036 - 2056 doi:10.1029/2001 JB001145

128 Kjeldstad, A., Langtang, H.P., Skogseid, J. and Bjørlykke, K. 2003 Simulation of Compaction and Heat Transfer in Sedimentary Basins. in: H.P. Langtang and A. Tveito (eds); Advanced topics in numerical simulations in Diffpack II. (Springer Verlag). p 611 -658

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125. Storvoll, V., Bjørlykke, K., Karlsen, D. and Saigal, G., 2002. Porosity preservation in reservoir sandstones due to grain-coating illite: a study of the Jurassic Garn formation from the Kristin and Lavrans Fields offshore Mid-Norway. *Marine and Petroleum Geology* 19, 767-781.

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