

# CV – Dr. Per Avseth



*Born: 22.08.1970*

*Address: Holbergs gate 3, 0166 Oslo, Norway*

*Phone number: (+47) 92 043 844*

*E-mail: Per.Aage.Avseth@gmail.com*

*CTO and Geophysical Adviser, Dig Science AS*

*Consulting Researcher, Department of Electronic Systems, NTNU, Norway.*

- ***Internationally renowned expert in Rock Physics, AVO and Quantitative Seismic Interpretation.***
- ***First author of the book “Quantitative Seismic Interpretation – Applying Rock Physics Tools to Reduce Interpretation Risk” (Cambridge University Press, 2005).***

- **Education:**

**2000:** Ph.D. Geophysics, Stanford University. Thesis title: “Combining Rock Physics and Sedimentology for Seismic Reservoir Characterization of North Sea Turbidite Systems”.

**1996:** M.Sc. Geophysics, Stanford University.

**1993:** M.Sc. Applied Petroleum Geoscience, Norwegian Institute of Technology (NTH).

- **Professional employment:**

**2020:** NTNU, Trondheim: Consulting Researcher, Earth Physics

**2017-present:** Dig Science AS, Oslo: Co-founder, Lead Geophysicist and CTO.

**2013-2016:** Tullow Oil Norway, Oslo: Geophysical Advisor

**2012-2013:** Spring Energy, Oslo: Geophysical Advisor

**2008-2020:** NTNU, Trondheim: Adjunct Professor, Reservoir Geophysics.

**2007-2012:** Odin Petroleum AS, Bergen: Geophysical Advisor and Consultant.

**2006-2007:** Rock Physics Technology AS, Bergen: Founder and Consultant.

**2001-2006:** Norsk Hydro Research Centre, Bergen: Research Geophysicist.

**2000-2001:** Stanford University, Post-doc researcher.

**1994:** Norsk Hydro Exploration, Oslo: Seismic Interpreter.

- **Academic Honors:**

**2012:** The Norwegian Geophysical Award (Norwegian Petroleum Society).

**2009:** SEG Honorary Lecturer in Europe: *“Mind the gap in seismic reservoir prediction – How rock physics can bridge the gap between qualitative geology and quantitative geophysics”*.

- **Key publications 2016-2020:**

Avseth, P., Lehocki, I., Feuillebois, L., Hansen, T.N., Angard, K., and Reiser, C., 2020, Exploration workflow for real-time modelling of rock property and AVO feasibilities in areas with complex burial history—a Barents Sea demonstration; *First Break*, 38, 51-56.

Lehocki, I., Avseth, P., and Mondol, N.H., 2020, Seismic methods for fluid discrimination in areas with complex geologic history—A case example from the Barents Sea; *Interpretation*, 8, SA35-SA47.

Avseth, P., Lehocki, I., Kjøsnes, Ø., and Sandstad, O.A., 2020: Data-Driven Rock Physics Analysis of North Sea Tertiary Reservoir Sands; Accepted for publication in *Geophysical Prospecting*.

Bredesen, K., Avseth, P., Johansen, T.A., and Olstad, R., 2019, Rock physics modelling based on depositional and burial history of Barents Sea sandstones; *Geophysical Prospecting*, 67, 825-842.

Avseth, P., Janke, A., and Horn, F., 2016, AVO inversion in exploration – Key learnings from a Norwegian Sea prospect; *The Leading Edge*, 35, 405-414.

Avseth, P., and Lehocki, I., 2016, Combining burial history and rock-physics modeling to constrain AVO analysis during exploration; *The Leading Edge*, 35, 528-534.

Avseth, P., Skjei, N., and Mavko, G., 2016, Rock-physics modeling of stress sensitivity and 4D time shifts in patchy cemented sandstones — Application to the Visund Field, North Sea; *The Leading Edge*, 35(10), 868–870, 872–878.