



## David Handwerger, PhD

### AFFILIATE SCIENTIST

Dr. David Handwerger is currently President and Manager of Statistical Petrophysics, LLC and specializes in machine learning and data analytics for integrating subsurface geologic and geophysical data collected from core, well log, and seismic studies. His research interests are in developing new algorithms and workflows for achieving these tasks.

Dr. Handwerger received his BA in Physics from The Johns Hopkins University in Baltimore, MD in 1990, his MS in Geology from the University of Utah in 1996 and his PhD in Geophysics also from the University of Utah in 2003. His PhD work included two cruises as a logging scientist with the Ocean Drilling Program in the Southern Ocean and Antarctica studying the evolution of the Antarctic cryosphere. Dr. Handwerger also served as petrophysicist for the Antarctic Geological Drilling (ANDRILL) – Southern McMurdo Sound campaign in the Austral summer of 2007-8.

Prior to starting his company, Dr. Handwerger worked for 12 years as Senior, then Principal, Petrophysicist for Schlumberger Technology Co., starting with TerraTek, Inc. in Salt Lake City, UT (which was acquired by Schlumberger in July 2006). While with TerraTek/Schlumberger, Dr. Handwerger was a leading company expert in the field of core-log-seismic integration and machine learning as applied to subsurface measurements, particularly in unconventional reservoirs, where he developed commercial workflows and algorithms to support TerraTek's and Schlumberger's businesses. In addition, Dr. Handwerger was a leading researcher in developing and improving core analysis methods for measuring petrophysical and geomechanical properties in shale reservoirs as well as the mathematical characterization of complex fracture surfaces.

He has taught numerous classes on core analysis and data integration, including a Geomechanics and Data Integration course for the Society of Petroleum Engineers (SPE) and NExT short courses for the Society of Petrophysicists and Well Log Analysts (SPWLA), focused on data integration. He has also delivered lectures for numerous conferences and symposia.

Dr. Handwerger was also heavily involved in client engagement for the evaluation of unconventional reservoirs for Schlumberger, as well as an instructor for company training classes on core analysis and data integration methods. He is the author of numerous papers on the topics of shale core analysis and the integration of core data with wireline log and seismic data, and has been a Distinguished Lecturer for SPE on the topic of Antarctic scientific drilling.

#### Research Interests

- Developing new algorithms and workflows for machine learning and data analytics for:
  - » subsurface geologic and geophysical data collected from core, well log, and seismic studies

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