

## Curriculum Vitae

Name: Dr. Stefan **Folle**  
Date of Birth: 27.12.1957  
Nationality: German  
Profession: Geologist  
Languages: German, English



### Professional Experience:

Since July 2005: **STORCONSULT-Associate**

1989 – June 2005 **Kavernen Bau- und Betriebs-GmbH, Hannover**  
Chief Geologist, proxy since 2003  
Centre of Excellence within **Schlumberger** (Holding Company)

1984 – 1989 **Technical University Clausthal**, Institute of Geology and Palaeontology,  
Department of Petroleum Geology, serving as Scientific Assistant

### Professional Education:

1983 – 1987 **Technical University Clausthal**  
Doctorate studies, graduated 1987 (Dr.rer.nat/Ph.D.)

1977 – 1983 **Technical University Clausthal**  
Geological studies, graduated 1983 (Diploma/M.Sc.)

### Areas of Expertise:

- Exploration and exploitation programmes and execution (seismics, drilling etc.)
- Geologic evaluation of aquifers and salt formations for the storage of gas
- Geological evaluation of salt formations for brine production
- Geological Lab investigation programmes
- Investigation of overburden density for optimization of gas pressure
- Long term safety considerations
- Feasibility studies of storage projects
- Technical due diligence

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### Selected Tasks and Projects

- Site selection of potential CO<sub>2</sub> storage locations in Mecklenburg-Vorpommern, Brandenburg and Lower Saxony as well as adjacent offshore areas
- Evaluation of cavern storage sites (Germany, The Netherlands, Denmark)
- Technical due diligence studies, salt mine (Germany) and salt cavern storage site (Germany)
- Investigation of gas formation mechanisms and human intrusion regarding a radioactive waste repository and associated impacts on managing the proof of final disposal safety (Germany)
- Geological project coordination of drilling of 5 gas storage wells (Portugal)
- Wells for salt production (3) – suitability investigation of a salt dome (Abu Dhabi)
- Exploration of an aquifer for gas storage (Iran; 3 wells, seismics)
- Exploration of a salt dome for gas storage (Iran); 1 well, seismics)
- Underground disposal; site selection of suitable salt formations, risk assessment (Israel)
- Underground waste disposal; long term safety of a flooded mine (Germany)
- Underground storage of natural gas in salt caverns; geological planning, supervision and assessment for 8 cavern wells (Germany)
- Conversion of 9 crude oil storage caverns into gas storage caverns; appraisal of geological conditions (Germany)
- Crude oil storage in salt caverns; geological planning, supervision and assessment of 7 wells (Germany)
- Underground disposal of hazardous waste in salt caverns; geological evaluation (Germany)
- Brine production, feasibility study, planning of a cavern well (The Netherlands)
- Geological planning, supervision and assessment of gas cavern storage wells (13) in Germany for several clients
- Aquifer gas storage; geological planning, supervision and assessment of a horizontal well (Germany)
- Potash mining; assessment of saliferous horizons (Thailand)
- Brine production; planning and assessment of cavern wells (3); geological supervision and project consulting (Spain)
- Investigation of overburden density for optimization of gas storage pressure at locations in Germany Denmark

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### Selected Publications:

- FOLLE, S.; SCHMIDT, U. (2012): **Gasspeicherung in Salzformationen des Mittleren Ostens - Aussichten**  
[Gas storage in salt formations in the Middle East - Outlook]  
mining geo (2012) 1 (in preparation)
- FOLLE, S. (2010): **Presentation of Salt Structures and Considerations about their Genesis as a Basis for the Evaluation of their Economical Use**  
SMRI Spring Technical Meeting, Grand Junction/USA, 26.-27.04.2010
- FOLLE, S. (2008): **Salt structures – Exploration and Limits of Interpretation**  
Z. geol. Wiss. 36 (2008) 4-5, pp.321-333
- FOLLE, S. (2007): **Middle East Salt Deposits – Distribution and Potential Use**  
Oil Gas European Magazine, Vol. 33, No. 1, pp. 9-14
- FOLLE, S. (2004): **Salt Occurrence in the Gulf Region**  
GeoArabia, Middle East Petroleum Geosciences, Vol.9, Number 1, Abstract and Presentation  
GEO 2004, 6<sup>th</sup> Middle East Geosciences Conference and Exhibition, 7-10 March, Kingdom of Bahrain
- FOLLE, S. (2001): **Gas Storage in Salt Caverns – Geological Framework**  
Proc. SMRI Fall 2001 Meeting, Technical Class, Albuquerque, NM, 07.-10.10.2001, pp. 47-86
- FOLLE, S. (2000): **Geologische Rahmenbedingungen für den Kavernenbau**  
[Geological Scope of Work for Cavern Construction]  
DGMK-Tagungsbericht 2000-2, Celle.
- FOLLE, S.; BEUTEL, TH. (2000): **Overview of Salt Occurrence in the Persian Gulf and Red Sea Region**  
Proc. of SALT 2000 (8<sup>th</sup> World Salt Symposium), The Hague, Vol. 1, pp. 119
- FOLLE, S. (1998): **Geological aspects of the construction of caverns in salt**  
Proc. SMRI Fall Meeting Rome, 04.-07.10.98, Poster Presentation, pp. 531-540
- FOLLE, S.; ROLFS, O. (1996): **Gravimeter yields rock density for cavern during operations**  
Oil & Gas Journal, Jan. 22, pp. 40 - 45, Penn Well Publication, Tulsa, Oklahoma
- FOLLE, S. (1993): **Dichtebestimmungen im supradiapirischen Bereich**  
[Salt Caverns: Investigation of Overburden Density]  
Erdöl Erdgas Kohle 109 (1993) 10, pp. 409-412, Urban Verlag, Hamburg/Wien
- FOLLE, S. (1988): **Radiometrische Bohrlochmessungen im salinaren Gebirge und Versatz**  
[Radiometric logging in salt formations and back fill]  
Kali und Steinsalz 10 (1988) 1, pp. 28-34
- FOLLE, S.; KHAN, F. A. (1988): **Diagenetical transformation of pores and their influence on flow properties depending on lithology**  
Oil Gas European Magazine, 14/2, pp. 22-25, Urban Verlag, Hamburg/Wien

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- FOLLE, S.; MÜLLER, K. (1988): **Kluftorientierung und -analytik an Bohrkernen**  
[Orientation and analysis of core-fractures]  
Erdöl Erdgas Kohle 104 (1988) 6, pp. 253-256, Urban Verlag, Hamburg/Wien
- FOLLE, S. (1987): **Laboruntersuchungen und radiometrische in situ-Messungen zur Ermittlung von Kenngrößen des Barrierensystems eines Endlagers für radioaktive Abfallstoffe im Salzgebirge**  
[Investigations concerning radioactive waste disposal in salt formations]  
Clausthaler Geowissenschaftliche Dissertationen, 27, 135 p., Selbstverlag des Geologischen Institutes der Technischen Universität Clausthal.

### Membership:

- German Geological Society (DGG)
- German Scientific Society for Oil, Gas and Coal (DMGK)
- Federal Association of German Geoscientists (BDG)
- Solution Mining Research Institute (SMRI)