

CURRICULUM VITAE

Dr. Sven O. Egenhoff, Professor and Director

Present address: University of North Dakota
Harold Hamm School of Geology and Geological Engineering
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Nationality German

Language skills German – mother tongue, English and Spanish – fluently, Italian – basics

Professional experience

June 2022 - August 2023 Head of Petroleum Engineering

Since Dec. 2021 Full professor and Director, Harold Hamm School of Geology and Geological Engineering, University of North Dakota, USA

July 2016 – December 2021 Full Professor, Colorado State University, USA

July 2010 – June 2016 Associate Professor, Colorado State University, USA.

January 2006 - June 2010 Assistant Professor, Colorado State University, USA.
Areas of expertise: carbonate and siliciclastic sedimentology and sediment architecture, including mudstone/shale sedimentology; sequence stratigraphy, basin analysis.

April 2000 – December 2005 Lecturer (Assistent), Technische Universität Bergakademie Freiberg, Germany. Areas of expertise: siliciclastic and carbonate sedimentology, sequence stratigraphy.

July 1999 Lecturer at the Free University of Berlin, Germany, subject “Physical Sedimentology”.

May 1996-April 1999 Scientific Member in the Special Research Program 267 “Deformation Processes in the Andes” funded by the German National Research Council (DFG); Technical University Berlin, Germany.

May 1992-March 1996 Research assistant to Prof. T. Bechstädt at the Geologisch-Paläontologisches Institut, Ruprecht-Karls-Universität, Heidelberg, Germany

April-June 1991 Research assistant to Prof. H. Quade at the Geologisch-Paläontologisches Institut, Technische Universität Clausthal, Germany.

July-September 1989 Employment at “Química Baradero”, Salta, Argentina, as exploration geologist apprentice on borate minerals.

Academic career

- June 2000 Ph.D. in Geology (Dr. rer. nat.), Technische Universität Berlin, Germany; thesis: "Sedimentology and basin evolution in the Ordovician of southern Bolivia".
- March 1996 Diploma (= first German degree) in Geology-Paleontology from the Ruprecht-Karls-Universität in Heidelberg, Germany; (1) geological mapping "Facies mapping of the Middle Triassic Latemàr buildup, Dolomites, northern Italy"; (2) thesis "Lateral and vertical facies changes in a Middle Triassic isolated carbonate platform, the Latemàr, Dolomites".
- March 1991 Undergraduate examination (Vordiplom) in Geology/Paleontology, Technische Universität Clausthal, Germany.
- November 1987 Matriculation (Allgemeine Deutsche Hochschulreife) in German, Spanish, English and Mathematics, Goethe-School, Buenos Aires, Argentina.

Teaching experience*University of North Dakota*

GEOL 411 "Sedimentology and Stratigraphy"; GEOL 500 "Basin Analysis"

Colorado State University

GEOL 120 & 124 "Physical Geology", GEOL 344 "Stratigraphy and Sedimentation"; graduate course GEOL 546 "Basin analysis", graduate course GEOL 543 "Carbonate Sedimentology"; graduate course GEOL 545 "Shale Sedimentology"; Undergraduate/graduate course GEOL 492/GEOL 692 "Disasters in Earth History"; teaching of one section (1 week) of field camp GEOL 436; coordination of field camp (since 2009), GEOL 401 "Fall Field Trip" (Black Hills, South Dakota; Mesozoic of eastern Utah).

Technische Universität Bergakademie Freiberg

"Introductory Geology", "Historical Geology", "Siliciclastic sedimentology", "Carbonate sedimentology", "Basin analysis and sequence stratigraphy", "Geological Seminars"; annual field trips into the Cretaceous Elbe Valley (2 days) and Harz Mountains (10 days).

Research interests

- Physical sedimentology of shales and mudstones; shale facies models and their application to unconventional mudstone reservoirs
- Carbonate facies models, carbonate cyclicity in ramp and rimmed platform systems, and its application to petroleum reservoir characterization.
- Characterization of mixed carbonate-siliciclastic sedimentary systems.
- Application of sequence stratigraphy to reservoir and aquifer architecture, siliciclastics and carbonates
- Biostratigraphy and ecostratigraphy of graptolites

Research projects to start next semester**(1) Sedimentology of the Permian Broom Creek Formation, and related diagenetic signatures – Williston Basin, North Dakota, USA**

Start date: November 2023

Funded by Energy and Environmental Research Center

Total budget: \$115,128

(2) Progradation patterns in a mixed carbonate-siliciclastic system, and related diagenetic signatures – middle Bakken member, North Dakota, USA

Start date 1/2024

Funded by Energy and Environmental Research Center

Total budget: \$103,148

Active Research Projects**(1) UND's Department of Petroleum Engineering Oil and Gas Research**

Start date 03/2023

Funded by NDIC Oil and Gas Commission

Total Budget: \$2,980,000

Completed Research Projects**(1) Upper Ordovician Stratigraphy and Sedimentology of North Dakota – the Stoney Mountain and Stonewall Formations**Funded by Hess Corporation, Houston

Total budget: \$64,155

(2) Facies & Sequence Stratigraphy of Cenozoic Lake Systems

Completed 2018

Funded by Noble Energy, Denver

Total budget: \$175,617

(3) Petrology as a Tool to Delineate Sweet Spots in the Middle Bakken Reservoir

Completed 2015

Funded by Marathon Oil Company, and Hess Corporation, Houston, TX

Total budget: \$78,660

(4) Evaluating the Reservoir Potential of the Middle Three Forks Formation, Williston Basin, North Dakota

Completed 2015

Funded by Statoil, Austin, TX

Total budget: \$64,736

(5) Facies and sequence stratigraphy of the Lower Bakken Shale Member

Completed 2014

Funded by Marathon Oil Company, Houston, TX

Total budget: \$84,873

(6) Reservoir potential of the Upper Bakken Shale Member - facies and sequence stratigraphy as a key to successful exploration

Completed 2014

Funded by Hess Corporation, Houston, TX

Total budget: \$82,910

- (7) Deposition on the Far End - Shale Facies Architecture as an Archive for High Frequency Cyclicality**
Completed 2013
Funded by American Chemical Society
Total budget: \$100,000
- (8) Direct Re-Os Dating of Ordovician Graptolite Biozones: Refining Global Correlations and Earth Time**
Completed 2012
Funded by NSF - National Science Foundation
Total budget: \$454,719
- (9) The Lodgepole Formation Facies Distribution, Sequence Architecture & Diagenetic History as a Key to Develop a New Play Concept in the Williston Basin**
Completed 2012
Funded by Brigham Exploration Company, Austin, TX
Total budget: \$63,065
- (10) Petrology as a Tool to Delineate Sweet Spots in the Middle Bakken Reservoir**
Completed 2010
Funded by Brigham Exploration Company, Austin, TX
Total budget: \$39,330
- (11) Combined Outcrop, Core & Well Log Analysis in the Almond & Pine Ridge Intervals, Mesaverde Group, Wyoming**
Completed 2010
Funded by Anadarko Petroleum Corporation, Denver, CO
Total budget: \$78,216
- (12) The Three Forks Formation - Facies Distribution & Sequence Architecture as a Key to develop a New Play in the Williston Basin**
Completed 2009
Funded by Brigham Exploration Company, Austin, TX
Total budget: \$34,400
- (13) Fracture occurrence, mechanical stratigraphy and reservoir architecture in the Middle Bakken Member of the Williston Basin in North Dakota.**
Completed 2009
Funded by (a) Nance Petroleum, (b) Brigham Oil and Gas, (c) Samson Oil and Gas
Total budget: \$83,041
- (14) Hydrocarbon Source Rock Evaluation in the Cretaceous to Neogene Basins of Southern Nigeria and Implications for hydrocarbon exploration**
Completed 2009
Funded by Lukoil Overseas, London, UK
Total budget: \$15,000
- (15) Prospect generation in an intrasalt halokinetic play of the Paradox Basin foredeep, Utah**

Completed 2008
Funded by Delta Petroleum, Denver, CO
Total budget: \$25,750

(16) Marker beds and facies geometries in a braided river – braided fan system and implications for Uranium distribution; Klitschmar Formation, Carboniferous

Completed 2005
Funded by Geological Survey of Saxony-Anhalt 04-07/2005
Total budget: 2,000 €

(17) The Lower Cretaceous Hils Sandstone – a suitable building stone?

Completed 2003
Funded by MSW Chemie AG, Langelsheim
Total budget: 1,500 €

(18) Core facies analysis of the Klitschmar Formation, Lower Carboniferous, Germany

Completed 2003
Funded by Geological Surveys of Saxony-Anhalt, Halle, Germany
Total budget: 1,000 €

(19) Sedimentology of the Ordovician succession in the St. Petersburg region, Russia

Completed 2002
Funded by Verbundnetz Gas AG Leipzig, Germany
Total budget: 1,000 €

(20) Early Agnathan fish from Bolivia

Completed 2003
Funded by National Geographic Society (collaborator)
Total budget: \$20,000

(21) Sedimentology and sequence stratigraphy of Ordovician siliciclastics in central Bolivia

Completed 2003
Funded by German Research Foundation, DFG; Total budget: 17,000 DM (German Marks)

(22) The geological history of the Elbe Valley – a computer simulation

Completed 2002
Funded by Nationalpark Sächsische Schweiz, Bad Schandau (geological advisor)
Total budget: 3,500 DM (German Marks)

Membership of professional bodies

Since 1995 Geologische Vereinigung
Since 1998 International Association of Sedimentologists (IAS)
Since 2006 American Association of Petroleum Geologists (AAPG), Active Member
Since 2006 Geological Society of America
Since 2006 Rocky Mountain Association of Geologists (RMAG)

Invited lectures

- 05/2022 Low-gradient depositional systems – a new look at the Bakken Formation (ND, USA); NDSU Fargo, ND.
- 06/2021 Geometries and facies of low-gradient depositional systems – the Bakken Formation (ND, USA) as a prime example; UND Grand Forks, ND.
- 02/2021 Vision for the Harold Hamm School of Geology and Geological Engineering; UND Grand Forks, ND
- 02/2019 Dynamic black shale depositional systems from micro- to macroscale: Bakken Formation, Williston Basin, ND; Texas Technical University, Lubbock, Texas.
- 02/2018 No fossils left? Black shales, burrows, and the anoxia myth: The Bakken shales and beyond; Denver Museum of Natural History and Science, Denver, Colorado.
- 11/2017 What is so special about shales? Concepts, questions, and problems (and a few answers); RMS-SEPM, Denver, Colorado.
- 10/2017 Shale facies architecture, and the lower to middle Bakken transition - what you can see in core, and its applicability to drilling; University of North Dakota, Grand Forks, North Dakota.
- 10/2017 What is so special about shales? Concepts, questions, and problems (and a few answers); University of North Dakota, Grand Forks, North Dakota.
- 6/2017 Upper Bakken member shale facies architecture, North Dakota, USA – a tale of radiolarians and clay clasts; GSA Rocky Mountain Meeting, Calgary, Canada.
- 3/2017 Upper Bakken Shale facies architecture, and the lower to middle Bakken transition - what you can see in core, and its applicability to drilling; RMS-SEPM, Denver, Colorado.
- 2/2017 Upper Bakken Shale facies architecture, and the lower to middle Bakken transition - what you can see in core, and its applicability to drilling; Fort Lewis College, Durango, Colorado.
- 2/2017 Upper Bakken Shale facies architecture, and the lower to middle Bakken transition - what you can see in core, and its applicability to drilling; Utah State University, Logan, UT.
- 11/2016 Event deposition in shales: Björkåsholmen Formation, Sweden, Woodford Shale, Oklahoma, and upper Bakken Shale, North Dakota; KU, Lawrence, KS.
- 12/2014 Black shale depositional environments and the anoxic-dysoxic controversy – the Williston basin of North Dakota, USA, during upper Bakken times as a key example; RMAG, Denver, CO.
- 10/2014 Depositional environments of black shales and the anoxic-dysoxic dispute – the Williston basin of North Dakota, USA, during upper Bakken times: Colorado School of Mines, Golden, CO.
- 11/2013 Layer cake, anoxia and other myth - a new look at the Upper Devonian-Lower Mississippian Bakken Formation reservoir, Williston Basin, North Dakota; Bureau of Geology Montana and Montana Technical University, Butte, MT.
- 05/2012 Event deposition and bioturbation gradients in organic-rich mudstones - the Lower Mississippian Bakken Formation of North Dakota, Williston Basin, USA;

- Geological Association of Canada and Mineralogical Association of Canada Annual Meeting, St. John's, Canada.
- 07/2010 Layer cake, anoxia and other myth - a new look at the Upper Devonian-Lower Mississippian Bakken Formation reservoir, Williston Basin, North Dakota; Wyoming Geological Society, Casper, WY.
- 02/2010 Layer cake, anoxia and other myth - a new look at the Upper Devonian-Lower Mississippian Bakken Formation reservoir, Williston Basin, North Dakota; RMAG, Denver, CO.
- 02/2009 Cyclicity in an isolated carbonate platform - influence on lagoonal and margin architecture, and relevance for reservoir characterization. Denver International Petroleum Society, Denver, CO.
- 08/2008 How to find an Ordovician beach - hot tips from cold Scandinavia; SUNY at Buffalo, NY, Pegrum lecture series.
- 08/2007 The gaps, the grains, and the graptolites – the ups and downs of Scandinavia in the Ordovician; 9th meeting of the Working Group of Ordovician Geology of Baltoscandia, Rättvik, Sweden.
- 02/2007 Wishing it to be Milankovitch – the search for mechanisms producing carbonate cycles in greenhouse platforms; University of Wyoming, Laramie WY, USA
- 11/2006 Millions of years, hundreds of cycles and dozens of opinions – what can we really read from lagoonal carbonate successions? University of Colorado, Boulder CO, USA
- 10/2006 Beyond the Milankovitch paradigm: what we've learned from lateral variability in carbonate cycle stacking patterns; RMAG luncheon, Denver CO, USA
- 03/2005 Controlling parameters of lagoonal carbonate cyclicity – a critical approach to the orbital forcing model; The University of New York at Buffalo, Buffalo NY USA
- 08/2003 Review on Ordovician basin evolution in southern Bolivia; International Symposium on the Ordovician System 2003, San Juan, Argentina.
- 10/2001 El Ordovícico de Bolivia: sedimentología y evolución de Cuenca; Department of Geocology and Geography of the University of Cochabamba, Bolivia (held in Spanish)
- 10/1995 Lateral and vertical facies changes in an isolated carbonate platform – the Latemàr, Dolomites, northern Italy; Shell Research, Rijswijk, The Netherlands.

Industry/conference workshops and presentations

- 06/2023 Bakken Formation core workshop, AAPG-RMS Meeting Bismarck, ND.
- 10/2019 Core workshop Upper Devonian to Lower Mississippian Bakken Formation, North Dakota Geological Survey, Grand Forks, ND.
- 09/2019 Mudrock sedimentology and sequence stratigraphy. Core workshop RMAG, Golden, CO.
- 11/2014 Sedimentology, facies architecture and diagenesis of an unusual carbonate play – the Three Forks Formation, Williston basin, USA. Presentation to Statoil Austin, TX.
- 10/2013 Middle and lower Bakken Formation members - sedimentology and sequence stratigraphy. Two presentations to Marathon Oil Company, Houston, TX.

- 09/2013 Mowry Shale - sedimentology and its application to shale reservoir architecture. Presentation to Anadarko Petroleum Corporation, Denver, CO.
- 03/2013 Layer cake, anoxia and other myth - a new look at the Upper Devonian-Lower Mississippian Bakken Formation reservoir, Williston Basin, North Dakota. Presentation to Anadarko Petroleum Corporation, Denver, CO.
- 12/2012 Sedimentology of the Elko Formation based on the Noble EOS core, Elko region, Nevada. Presentation to Noble Energy, Denver, CO.
- 09/2012 Sedimentology of shales: upper Bakken member, Alum Shale, and Woodford Shale. Three presentations to Noble Energy, Denver, CO.
- 01/2012 The Three Forks - Bakken - Lodgepole petroleum system. Two-day core workshop and presentation for Statoil (January 11 and 12), Austin, TX.
- 09/2011 Sedimentology and sequence stratigraphy of the Three Forks-Bakken petroleum system, Williston Basin. Two-day core workshop taught for Hess Corp. (September 29 and 30), Houston, TX.
- 08/2011 Sedimentology of mudstone unconventional reservoirs - a perspective. Presentation to Statoil, Trondheim, Norway.
- 08/2010 Ordovician mud-rich turbidite systems in Bolivia - an analog for North and Barents Sea reservoirs. Presentation to VNG Exploration Company, Oslo, Norway.
- 01/2010 Three Forks and Bakken Formations, Williston Basin: sedimentology, reservoir architecture, and petrology. Presentation and core workshop taught for Brigham Exploration Company, Austin, TX.
- 06/2009 Devonian Three Forks Formation, Williston Basin: sedimentology, reservoir architecture, and controlling processes. Presentation to Brigham Exploration Company, Austin, TX.
- 05/2009 Cyclicity in an isolated carbonate platform. Presentation to Samson Exploration Company, Denver, CO.
- 10/2008 The Bakken play - results and future directions. Presentation to St. Mary Land and Exploration Company, Billings, MT.
- 02/2008 Fracture occurrence, mechanical stratigraphy and reservoir architecture in the Middle Bakken Member of the Williston Basin in North Dakota. Presentation to Brigham Exploration Company, Austin, TX.
- 10/2007 The Bakken play - a sequence stratigraphic approach to reservoir compartmentalization. Presentation to Samson Exploration Company, Denver, CO.
- 10/2007 Sequence stratigraphy and fracture occurrence in the Bakken play. Presentation to Nance Exploration Company, Billings, MT.

Honors and Awards

- 02/2023 UND VPAA award for Excellence in Assessment
- 01/2022 UND Geology and Geol. Engineering Tom and Carolyn Hamilton Fellow
to present
- 03/2012 2012 Best Teacher Award, Colorado State University Alumni Association
- 05/2013 AAPG-EMD Best Poster Award (Co-author of Fishman et al.)

06/2013 2013 Ralph J. Gray Award, Society for Organic Petrology for best refereed paper in Coal and Organic Petrology (Co-author of Fishman et al. 2012)

Research supervision

PhD thesis

Chellal, Hichem: The Cretaceous Inyan Kara Formation, and its potential use for well-water disposal. PhD thesis, in progress

Ifrene, Ghoulem: New Insights into Fracture Porosity Estimations Using Machine Learning and Advanced Logging Tools. PhD thesis, in progress

Irofti, Doina: Sedimentology of the Duperow Formation, Williston Basin. PhD thesis in progress

Jaffri, Ali, 2009: Enhanced recovery from ancient carbonate ramps: lessons and analogs from Paleozoic successions and the Persian Gulf. Unpublished PhD thesis Colorado State University, 185 p.

Novak, Aleksandra, 2019: Low-inclined fine-grained depositional systems in Paleozoic marine successions (Williston Basin, USA, and Scandinavian shelf, Europe). Unpublished PhD thesis Colorado State University, 157 p.

Vasquez Pinto, Mauricio: Sedimentology of the basal Bakken Formation, an intracratonic mixed carbonate-siliciclastic system, Williston Basin, USA. PhD thesis in progress.

Zallum, Ibrahim: Triassic marine sedimentary systems in North America. PhD thesis in progress.

Masters' theses

Abukhtwa, Ahmed: Sedimentology of distal lobe to basin deposits, Skull Creek Formation (Dakota Group), Front Range, USA. MS thesis in progress.

Albert, Stacie, 2014: Sedimentology and sequence stratigraphy of the Lower Bakken Shale, ND and MT. Unpublished Masters' thesis, Colorado State University, 83 p. + appendices.

Borcovsky, Damien, 2013: Sequence stratigraphy of the upper Bakken shale. Unpublished Masters' thesis, Colorado State University, 112 p + appendices.

Çigri, Ali Raza, 2014: Sedimentology of Ordovician sediments in Öland, Sweden. Unpublished Masters' thesis, Colorado State University, 53 p. + appendices.

Dereume, Jeffrey M., 2010: Sequence stratigraphic distribution of coal-bearing rocks from the Mesaverde Group in the easternmost Atlantic Rim of the Washakie Basin, Wyoming. Unpublished Masters' thesis, Colorado State University, 104 p. + appendices.

Droege, Lauren, 2014: Sedimentology of the Middle Three Forks Formation, Williston Basin, North Dakota and Montana. Colorado State University, 86 p. + appendices.

Horner, William, 2014: Sedimentology and evolution of a Tertiary lake system, Elko Formation, Nevada. Unpublished Masters' thesis, Colorado State University, 56 p. + appendices.

Kendigelen, Oguzhan, 2016: Sedimentology of a Late Paleozoic dune-beach-subtidal marine transition – Lyons Formation, Colorado. Unpublished Masters' thesis, Colorado State University, 70 p. + appendices.

- Kolte, Ketki, 2014: Diagenesis of Paleozoic mixed carbonate-siliciclastic reservoirs in the Williston Basin, North Dakota and Montana. Unpublished Masters' thesis, Colorado State University, 68 p. + appendices.
- Mackie, Jamie, 2013: Sedimentology and diagenesis of the Lodgepole Formation, Williston Basin, North Dakota and Montana. Unpublished Masters' thesis, Colorado State University, 108 p. + appendices.
- Masterson, Kathleen, 2015: Sedimentology of mudstones in the Dakota Group, CO. Unpublished Masters' thesis, Colorado State University, 95 p. + appendices.
- McGowan, Erin, 2015: GR signatures of lacustrine systems - Elko Formation, Elko, Nevada. Unpublished Masters' thesis, Colorado State University, 193 p. + appendices.
- Mota, Lindsay: Sedimentology of the Owl Canyon Formation, Pennsylvanian to Permian, northern Front Range. MS thesis in progress.
- Newby, Warren, 2012: Shale facies analysis of the Alum Formation, Sweden. Unpublished Masters' thesis, Colorado State University, 52 p. + appendices.
- Nair, Kajal, 2018: Sedimentology of a mixed clastic-carbonate ramp in an arid environment – the Pennsylvanian/Permian Ingleside Formation, northern Colorado. Unpublished Masters' thesis, Colorado State University, 126 p.
- Petrowsky, Matthew, 2013: Facies architecture and depositional environment of the Black Cove Formation, Ordovician, Newfoundland. Unpublished Masters' thesis, Colorado State University, iv + 60 p.
- Russell, Thomas: Sedimentology of the Upper Ordovician Mount Ålleberg succession, Västergötland, central Sweden. MS thesis in progress.
- Schuller, Kathryn, 2018: The carbonate-clastic transition on a wide-spanned Paleozoic shelf - sedimentology of the Arnestad Formation, Norway. Unpublished Masters' thesis, Colorado State University, iv + 61 p.
- Spansel, Joel, 2020: 'False Bakken' interval – sediment patterns and depositional architecture at the facies boundary between siliciclastic mudstones and carbonates, Lodgepole Formation, Mississippian, Williston Basin, ND. Unpublished Masters' thesis, Colorado State University, vi + 178 p.
- van Dolah, Aaron, 2009: Facies analysis, fracture distribution and sequence stratigraphy of the Bakken Formation, Williston Basin, North Dakota. Unpublished Masters' thesis, Colorado State University, 98 p.
- van Hook, James: Sedimentology of the Huk Formation, Oslo region (Norway) and Scania (Sweden). MS thesis in progress.

Diploma theses (approximately equivalent to a Masters)

- Sebastian Bretschneider, 2005: Sedimentation and volcanism in a Jurassic intra-arc basin - the Cerro Blanco Complex, Taltal, northern Chile. Unpublished Masters' thesis, Technische Universität Bergakademie Freiberg, 88 p.
- Susanne Hesse, 2005: Reconstruction of a storm-dominated prograding siliciclastic shelf – Ordovician, central and southern Bolivia. Unpublished Masters' thesis, Technische Universität Bergakademie Freiberg, 102 p. and appendices.
- Claudia Hildebrandt, 2003: Facies development in the Middle and Upper Ordovician successions of Cienega, Lecori, Tipa Jara and Vitichi – implications for the evolution

of the central and southern Bolivian shelf. Unpublished Masters' thesis, Technische Universität Bergakademie Freiberg, 96 p. and appendices.

Hendrik Lantzsch, 2004: Mineralogical and sedimentological variations on the northwestern slope of Little Bahama Bank, in cooperation with John Reijmer, Geomar Kiel, Germany. Unpublished Masters' thesis, Technische Universität Bergakademie Freiberg, 51 p. and appendices.

Erik Neumann, 2004: Sedimentology and stratigraphy of Cenomanian and Turonian siliciclastics in the Königsstein area, Elbe Valley, south-eastern Germany. Unpublished Masters' thesis, Technische Universität Bergakademie Freiberg, 50 p. and appendices

Frank Schönian, 2000: Die Ablagerungsgeschichte der Cancaniri-Diamiktite (Ordovizium/Silur) im Gebiet der Santa Cruz Loma bei Tarija, Suedbolivien. Unpublished Diploma thesis, Humboldt Universität Berlin, 139 p. and appendices.

Susanne Zechel, Diploma thesis 2005: The facies distribution on the northwestern Great Bahama Bank; in cooperation with John Reijmer, University of Marseille, France. Unpublished Masters' thesis, Technische Universität Bergakademie Freiberg, 79 p. and appendices.

Diploma mapping theses

Martina Böhme, 2006: Geological mapping of Bygdøy, Oslo area, Norway. Unpublished Diploma mapping thesis, Technische Universität Bergakademie Freiberg, 25 p.

Nadine Hülbig, Diploma mapping thesis 2004: Geological mapping of the Asenfjord area, central Norway; together with Simone Störer in cooperation with the NTNU Trondheim, Norway. Unpublished Diploma mapping thesis, Technische Universität Bergakademie Freiberg, 61 p.

Hendrik Lantzsch, 2003: Geological map of the region between Langelsheim und Ostlutter and facies analysis of the Cretaceous Hils Formation. Unpublished Diploma mapping thesis, Technische Universität Bergakademie Freiberg, 59 p.

Jörg Neff, 2003: Palabora Mapping project, Limpopo Province, South Africa. Unpublished Diploma mapping thesis, Technische Universität Bergakademie Freiberg, 43 p.

Erik Neumann, 2004: Geological map of the Oybin area, south-eastern Germany. Unpublished Diploma mapping thesis, Technische Universität Bergakademie Freiberg, 18 p. and appendices.

Simone Störer, 2004: Geological mapping of the Asenfjord area, central Norway; together with Nadine Hülbig in cooperation with the NTNU Trondheim, Norway. Unpublished Diploma mapping thesis, Technische Universität Bergakademie Freiberg, 61 p.

Susanne Zechel, 2005: Facies maps of the Great Bahama Bank – a revision; in cooperation with John Reijmer, University of Marseille, France. Unpublished Diploma mapping thesis, Technische Universität Bergakademie Freiberg, 31 p.

Bachelor theses

Robert Asch, 2005: Sedimentology of the Elnes Formation on Bygdøy, Oslo region, southern Norway, together with Stefan Höntzsch. Bachelor thesis, Technische Universität Bergakademie Freiberg, 24 p.

- Katarina Borowski, 2006: Facies and environmental analysis of two sections through the Elnes and Vollen Formation in Bygdøy and Slemmestad, Oslo area, Norway. Bachelor thesis, Technische Universität Bergakademie Freiberg, 43 p.
- Sebastian Donke, 2003: Lower Carboniferous sedimentary evolution on the Mid-German Crystalline High: Core facies analysis (core Wis BAW 644/76), together with Anke Walther. Bachelor thesis, Technische Universität Bergakademie Freiberg, 26 p. and appendices.
- Susann Ertl, 2004: Lower Carboniferous sedimentary evolution on the Mid-German Crystalline High: Core facies analysis of the southern Roitzsch area (core Wis BAW 645/76); together with Elisabeth Müller. Bachelor thesis, Technische Universität Bergakademie Freiberg, 26 p. and appendices.
- Susanne Hesse, 2002: Lower Carboniferous sedimentary evolution on the Mid-German Crystalline High: Core facies analysis (core Wis BAW 635/76). Bachelor thesis, Technische Universität Bergakademie Freiberg, 27 p. and appendices.
- Roland Hentschel, 2005: Mineralogical characterization of a glauconite-rich sediment from the Lower Ordovician, southern Sweden. Bachelor thesis, Technische Universität Bergakademie Freiberg, 28 p. and appendices.
- Stefan Höntzsch, 2005: Sedimentology and biostratigraphy of the Elnes Formation, Oslo area, Norway; together with Robert Asch. Bachelor thesis, Technische Universität Bergakademie Freiberg, 24 p.
- Moritz Kirsch, 2006: Facies analysis of Middle Ordovician successions in the Oslo region, Norway. Bachelor thesis, Technische Universität Bergakademie Freiberg, 20 p.
- Claudia Koehler, 2004: Lower Carboniferous sedimentary evolution on the Mid-German Crystalline High: Core facies analysis (core Wis BAW 639/76), together with Susanne Zechel. Bachelor thesis, Technische Universität Bergakademie Freiberg, 24 p. and appendices.
- Fabian Kostro, 2003: Carbonate microfacies analysis of the Dalby Formation, southern Sweden, and origin of enigmatic structures found therein. Bachelor thesis, Technische Universität Bergakademie Freiberg, 53 p. and appendices.
- Elisabeth Müller, 2004: Lower Carboniferous sedimentary evolution on the Mid-German Crystalline High: Core facies analysis, eastern Brehna area (core Wis BAW 582/76); together with Susanne Ertl. Bachelor thesis, Technische Universität Bergakademie Freiberg, 26 p. and appendices.
- Erik Neumann, 2003: Sedimentology of Cretaceous fan deposits in the Oybin area, south-eastern Germany. Bachelor thesis, Technische Universität Bergakademie Freiberg, 13 p. and appendices.
- Steffi Schindler, 2004: Lower Carboniferous sedimentary evolution on the Mid-German Crystalline High: Core facies analysis of the northwestern Kyhna area, together with Nora Schumann. Bachelor thesis, Technische Universität Bergakademie Freiberg, 32 p. and appendices.
- Nora Schumann, 2004: Lower Carboniferous sedimentary evolution on the Mid-German Crystalline High: Core facies analysis of the northwestern Kyhna area, together with Steffi Schindler. Bachelor thesis, Technische Universität Bergakademie Freiberg, 32 p. and appendices.

- Konstanze Stübner, 2002: Carbonate facies analysis and relative sea-level changes of the Björkasholmen Formation, Oslo region, Norway. Bachelor thesis, Technische Universität Bergakademie Freiberg, 25 p. and appendices.
- Anke Walter, 2004: Lower Carboniferous sedimentary evolution on the Mid-German Crystalline High: Core facies analysis (core Wis BAW 644/76), together with Sebastian Donke. Bachelor thesis, Technische Universität Bergakademie Freiberg, 26 p. and appendices.
- Mirko Werner, 2004: Carbonate and siliciclastic facies analysis of the Elnes Formation, Oslo region, Norway. Bachelor thesis, Technische Universität Bergakademie Freiberg, 23 p. and appendices.
- Susanne Zechel, 2004: Lower Carboniferous sedimentary evolution on the Mid-German Crystalline High: Core facies analysis (core Wis BAW 639/76), together with Claudia Koehler. Bachelor thesis, Technische Universität Bergakademie Freiberg, 24 p. and appendices.

Service to the geological and research community

- Section Editor of "Marine and Petroleum Geology" (October 2015 – March 2018).
- Associate Editor of "Marine and Petroleum Geology" (October 2014 – May 2018).
- Associate Editor for "Journal of Sedimentary Research" (since October 2017)
- Chair of session "Unconventional Resources: tight oil plays" at AAPG Annual Meeting in Houston, TX, April 2014.
- Review of 172 abstracts for the AAPG Annual Meeting in Houston, TX, October 2013.
- Chair of session "Worldwide Unconventional Reservoirs"; co-chair of session "Depositional systems and sedimentology of shale and tight sands I and II"; co-chair of session "shale plays of the Americas (Non-US)" at AAPG Annual Meeting in Pittsburg, PA, May 2013.
- Review of 199 abstracts for the AAPG Annual Meeting in Pittsburg, PA, October 2012.
- Co-chair of session 274 at the GSA Annual Meeting in Minneapolis, MN, "Mudstones - priceless", October 2011.
- Co-chair of sessions (I and II) at the AAPG-ICE Meeting in Calgary, Canada, "North American Unconventional Oil - The Bakken", September 2010.
- Co-chair of session on mudstones at the GSA Regional Meeting in Rapid City, South Dakota.
- Representative of the Rocky Mountain Region in the Educational Committee of the Geological Society of America, 2009 - 2012.
- Vice-chair of the EMD (AAPG) "Shale gas and liquids" committee, since 2012.

University Service

- Chair of the College Committee on International Affairs 2009-2012; 2013-2017 member
- Member of Colorado State University Faculty Council, 2009-2014
- Member of search committees for faculty, Colorado State University, 2008 and 2011/2012
- Chair of Field Education committee, 2010 - 2022 (member since 2006)

- Chair of the tenure and promotion committee, August 2020 – December 2023
- Member in several Departmental committees between 2006 and 2016 (Curriculum, Scholarships and Awards, Geology Advisory Council, Microscopes, RAM Welcome Street Fair, Geology Club Supervisor).

Other

- Member of the Organizing Committee of the 18th Geowissenschaftliches Lateinamerika-Kolloquium held in April 2003 in Freiberg, Germany. Scientific and technical coordination, editing of Abstract Volume.
- Contributions to the German Encyclopaedia “Brockhaus”, printed and online editions; writing and editing of general geological terms, famous geologists, sedimentology, volcanology and earthquakes (2004/2005 and 2008)

Administrative and Leadership experience

- Director of Geology and Geological Engineering, since December 2021
- Department Head of Petroleum Engineering, June 2022 – August 2023
- Department Head and Director of Energy and Petroleum Engineering, 1-15 August 2023
- Leading various sedimentology working groups in Freiberg (Germany), Fort Collins, CO), and Grand Forks (ND)

Publication list

Books

(1) Larsen, D., **Egenhoff, S.O.**, and Fishman, N.S. (2015): Paying attention to Mudstones; priceless! Geological Society of America Special Paper 515, 1-168.

(2) **Egenhoff, S.O.** (2000): Sedimentologie und Beckenentwicklung im Ordovizium in Süd-bolivien. Berliner Geowissenschaftliche Abhandlungen, Band A 207, 1-173.

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(54) Oni, O., Fadairo, A., Gosnold, W., **Egenhoff, S.**, Adeyemi, G., & Ling, K. (2023): Investigating the suitability of North Dakota fly ash as fluid loss reducing additive in densified water-based drilling fluid. *Powder Technology*, 118972.

(53) Kendigelen, O., **Egenhoff, S.**, Matthews, W.A., Holm-Denoma, C.S., Whiteley, K.R., Gent, V.A., Longman, M.W., and Hagadorn, J.W. (2023): The edge of a Permian erg: Eolian facies and provenance of the Lyons Sandstone in northern Colorado. *The Mountain Geologist*, v. 58, 57-82.

(52) Kimmig, J., LaVine, R., Schiffbauer, J., **Egenhoff, S.**, Shelton, K., and Leibach, W. (2023): Annelids from the Cambrian (Wuliuan Stage, Miaolingian) Spence Shale Lagerstätte of northern Utah, USA. *Historical Biology*, p. 1-10, doi 10.1080/08912963.2023.2196685

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(49) Novak, A., and **Egenhoff, S.O.** (2019): Soft-Sediment Deformation Structures as a Tool to Recognize Synsedimentary Tectonic Activity in the middle member of the Bakken Formation, Williston Basin, North Dakota. *Marine and Petroleum Geology*, v. 105, 124-140.

(48) Kimmig, J., Strotz, L.C., Kimmig, S.R., **Egenhoff, S.O.**, and Lieberman, B.S. (2019): The Spence Shale Lagerstätte: an important window into Cambrian biodiversity. *Geological Society London*, v. 176, 609–619.

(47) Fishman, N.S., **Egenhoff, S.**, Lowers, H., Boehlke, A.R., and Ahlberg, P. (2019): Pyritization history in the Late Cambrian Alum Shale, Scania Sweden: evidence for ongoing diagenetic processes. In: Camp, W., Milliken, K., Taylor, K., Fishman, N., and Macquaker, J., "Mudstone diagenesis: Research perspectives for shale hydrocarbon reservoirs, seals, and source rocks. AAPG Memoir 120, 83-102.

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(44) **Egenhoff, S.O.**, Maletz, J., Ahlberg, P., Mast, A., Frisk, A., Ebbestad, J.O.R., and Newby, W. (2018): Sedimentology of the Lower Ordovician Björkåsholmen Formation at Flagabro, southern Sweden –internal make-up and cyclicity. *GFF*, v. 140, p. 55-65.

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- (40) Akande, S.O., Lewan, M.D., **Egenhoff, S.O.**, Adekeye, O., J. Ojo, O.J., and Peterhansel, A. (2015): Source rock potential of lignite and interbedded coaly shale of the Ogwashi–Asaba Formation, Anambra basin as determined by sequential hydrous pyrolysis. *International Journal of Coal Geology*, v. 150-151, 224-237.
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- (24) **Egenhoff, S.**, Cassle, C., Maletz, J., Frisk, A., Ebbestad, J.O. & Stübner, K. (2010): Sedimentology and sequence stratigraphy of the most pronounced Early Ordovician sea-level fall on Baltica - the Bjørkåsholmen Formation in Norway and Sweden. *Sedimentary Geology*, v. 224, 1-14.
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- (18) **Egenhoff, S.O.** (2007): Life and death of a Cambro-Ordovician basin: an Andean three-act play featuring Gondwana and the Arequipa-Antofalla terrane. In: Linnemann, U., Nance, R.D., Kraft, P., and Zulauf, G., eds., *The Evolution of the Rheic Ocean: From Avalonian-Cadomian active margin to Alleghenian-Variscan collision*. Geological Society of America, Special Paper 423, 511-524; doi: 10.1130/2007.2423(26).
- (17) Schönian, F. & **Egenhoff, S.O.** (2007): A Pampean ice shield in the Hirnantian: Evidence from the Cancañiri tillites, southern Bolivia. In: Linnemann, U., Nance, R.D., Kraft, P., and Zulauf, G., eds., *The Evolution of the Rheic Ocean: From Avalonian-Cadomian active margin to Alleghenian-Variscan collision*. Geological Society of America, Special Paper 423, 525-548; doi: 10.1130/2007.2423(27).
- (16) **Egenhoff, S.O.**, Weber, B., Lehnert, O. & Maletz, J. (2007): Biostratigraphical precision of the *Cruziana rugosa* Group - A study from the Ordovician of southern and central Bolivia. *Geological Magazine*, v. 144, 289-303; doi: 10.1017/S0016756807003093.
- (15) **Egenhoff, S.O.** & Maletz, J. (2007): Graptolites as indicators of maximum flooding surfaces in deep-water shelf successions. *Palaios*, v. 22, 373-383; doi: 10.2110/palo.2005.p05-096r.
- (14) Maletz, J. & **Egenhoff, S.O.** (2005): Dendroid graptolites in the Elnes Formation, Oslo region, Norway. *Norwegian Journal of Geology*, v. 85, 217-221.
- (13) Peterhänsel, A. & **Egenhoff, S.O.** (2005): Sea level changes versus hydrothermal diagenesis: origin of Triassic carbonate platform cycles in the Dolomites, Italy: Discussion. *Sedimentary Geology*, v. 178, 145-149.
- (12) Alonso, R. & **Egenhoff, S.O.** (2005): The first geological observations in Argentina and southern Bolivia: The diary of Anton Zacharias Helms (1788/1798). *Neues Jahrbuch für Geologie und Paläontologie Abhandlungen*, v. 236, 1-17.
- (11) **Egenhoff, S.O.**, Maletz, J., & Erdtmann, B.-D. (2004): Lower Ordovician graptolite biozonation and lithofacies of southern Bolivia: relevance for palaeogeographic interpretations. *Geological Magazine*, v. 141, 287-299.

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(9) **Egenhoff, S.O.** & Lucassen, F. (2003): Chemical and isotopic composition constrain the source of Lower to Upper Ordovician sediments from the Andes of south Bolivia. *Journal of Geology*, v. 111, 487-497.

(8) **Egenhoff, S.O.** (2003): Litoestratigrafía y sedimentología del Ordovícico Inferior del sur de Bolivia. *Revista Técnica de YPF*, v. 21, 147-156.

(7) Maletz, J. & **Egenhoff, S.O.** (2003): Lower to Middle Ordovician graptolite biostratigraphy of southern Bolivia. *Revista Técnica de YPF*, v. 21, 131-146.

(6) Mundil, R., Zühlke, R., Bechstädt, T., Peterhänsel, A., **Egenhoff, S.O.**, Oberli, F., Meier, M., Brack, P. & Rieber, H. (2003): Cyclicities in Triassic platform carbonates: synchronizing radio-isotope and orbital clocks. *Terra Nova*, v. 15, 81-87.

(5) **Egenhoff, S.O.**, Maletz, J., Weber, B. & Erdtmann, B.-D. (2002): The Middle Ordovician Jurcuma section - pinpoint for basin evolution in southern Bolivia. *Freiberger Forschungshefte*, v. C497, 9-17.

(4) Maletz, J., Suarez Soruco, R. & **Egenhoff, S.** (2002): Silurian (Wenlock-Ludlow) graptolites of Bolivia. *Palaeontology*, v. 45, 327-341.

(3) Maletz, J. & **Egenhoff, S.O.** (2001): Late Tremadoc to early Arenig graptolite faunas of southern Bolivia and their implications for a worldwide biozonation. *Lethaia*, v. 34, 47-62.

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