**Dr. NICHOLAS W. HAYMAN**

**Director of the Oklahoma Geological Survey & Oklahoma State Geologist**

Sarkeys Energy Center

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# Education

Doctorate in Philosophy, Geological Sciences, University of Washington, 2003

Master of Science, Geological Sciences, SUNY Albany, 1997

Bachelor of Science, Geological Sciences, SUNY Albany, 1995, *Magna Cum Laude*

# Positions Held

Director of the Oklahoma Geological Survey & State Geologist of Oklahoma, July, 2020 - *present*

Program Director, National Science Foundation, Marine Geology & Geophysics Program,

Ocean Sciences Division, 2018 – 2020

Research Associate (2007-2013) and Research Scientist (2013-2020), Institute for Geophysics, University of Texas - Austin

Lecturer, Department of Geological Sciences, University of Texas - Austin, 2009 - 2020

Postdoctoral Research Associate (2003-2005) & Research Scientist (2005-2007), Duke University

Chevron Production Technology Company Intern, La Habra CA laboratory 1998

National Science Foundation Undergraduate Research Fellow, Lamont Doherty Earth Observatory, 1994

# Professional Activities

* Solid Earth Geology and Geophysics Research, with an emphasis on rock deformation studies;
* Instructed numerous classes in Geology and Geophysics;
* Participated in eight marine expeditions using scientific drilling, manned and remote submersibles, and seismic imaging techniques, and conducted field geology campaigns in numerous domestic and international field areas;
* Currently leading the Oklahoma Geological Survey in areas of energy science, atmospheric carbon reduction, and sedimentary geology research.

**Publications**

Thirty-eight peer-reviewed papers, 12 as first author, 21 with student or postdoctoral coauthors, in journals as varied as Science, Nature Geosciences, Geology, Journal of Geophysical Research, Journal of Structural Geology. Authored or co-authored 20 reports, field guides, and editorial pieces. See: <https://scholar.google.com/citations?user=Cr4MOa4AAAAJ&hl=en>

# Meetings & Conferences

Presented 26 invited talks and poster presentations, including at the Annual Meeting of the American Geophysical Union, the Geological Society of America, and Universities in the US, Europe, Japan, and Brazil, as well as several industry partners.

**Thesis & Dissertation**

Hayman, N.W., 1997, Pre-thrust normal faults and post-tectonic micas in the tectonic range of westcentral Vermont, M.Sc. thesis for SUNY Albany, 179 pp. (advisor: Darrel Cowan)

Hayman, N.W., 2003, Structure and petrology of gouge and breccia bearing shallow crustal shear zones of detachment faults in Death Valley, California, Ph.D. dissertation, U. Washington, 167 pp. (advisors: Bill Kidd & Win Means)

# Synergistic Activities

Geosphere 2019 Exceptional Reviewer Recognition, NSF-Deep Submergence Science Committee (DESSC), University of Texas committees, Editorial Board Member for Geology

Associate Editor for Sociedade Brasileira, Ocean Leadership workshop host.

# Teaching & Student Advising

UT Austin: Marine Geology, Fall, 2015; Marine Tectonics, Spring, 2011-2018, Topics in Marine Geology and Geophysics (readings), 2009-2014; EOS 11: The Dynamic Earth (Survey class), Duke University, Summer, 2006.

*Current graduate students:* Nicholas Montiel (w/ Lavier, expected Ph.D. 2023).

*Previous Postdocs*: Jacqueline Reber Vettiger (December, 2012-2015, now Asst. Prof. at Iowa State)

*Previous undergraduate researchers:* Mattheus Lima Lemos De Oliveira, Valeriy Shakenov, Keri Belcher (UT Austin, 2013-2014), Jennifer Locke (U.Washington, 2002)

*Previously supervised students:* Jennifer Harding (w/van Avendonk, expected Ph.D. 2018),

Mohammadreza Shafiei (w/Balhoff, Ph.D., 2018), Rodrigo Lima (w/Lavier, Ph.D., 2017); Sebastian

Ramirez (w/Gulick, Ph.D. 2016); Anna Eliza Svartmann Dias (w/Lavier, Ph.D. 2015); Max Pommer (w/ Milliken, M.Sc. 2014), Nicole Hart (w/ Stockli, M.Sc. 2014), Lucie Ducloué (visiting ENS student, 2010), Marshall Bowles (M.E.M., Duke, 2005)

**Grants and Awards**

Awards and external research funding stem back to ~2000, with awards to Ph.D. and Postdoctoral Advisors from the National Science Foundation and American Chemical Society. Subsequence awards as PI ranges from the National Science Foundation, Department of Energy, Shell, and Petrobras. National Science Foundation support to the Oklahoma Geological Survey in 2020 is supporting a workshop in September and October of 2020 (<https://www.carbonworkshop.org>; Walter lead PI), and discussions with Petrobras-Brazil continue toward a new phase of deep-water rifted margin research with Luc Lavier (UT Austin). A submission to DOE is planned for the Fall of 2020 to continue experimental research of visco-elastic-plastic materials.