Dr. John C. Lorenz
Certified Petroleum Geologist (CPG #5976)

John has specialized in understanding naturally-fractured reservoirs since 1981, and to further that work founded FractureStudies LLC with Scott Cooper in 2008. In an effort to help others with similar interests John and Scott wrote the *Atlas of Natural and Induced Fractures in Core*, and *Applied Concepts in Naturally Fractures Reservoirs* published by Wiley and Sons in 2018 and 2020.

John earned an undergraduate degree, with a double major in Geology in Anthropology, from Oberlin College in 1972, after which he ran off to Morocco to teach English and learn Arabic with the Peace Corps. In Morocco, he met a group of geologists from the University of South Carolina, where he earned an M.Sc. with a thesis describing a Moroccan Triassic rift basin. After earning that degree John worked for the USGS in Louisiana and New Mexico from 1975 to 1977, leaving to pursue a Ph.D. at Princeton University where he studied the Nubian Sandstone in Libya and Cretaceous strata in Montana, graduating in 1981. He then joined Sandia National Laboratories where he was the geologist for the tight gas Multiwell Experiment in the Piceance Basin. John worked as a geologist at Sandia Labs from 1981 to 2007, doing fractured-reservoir studies in areas ranging from Alaska to Algeria, to Texas. During that time, he served as the American Association of Petroleum Geologists Elected Editor from 2001-2004. More recently he was elected as president of the AAPG and served in that capacity during 2009-2010, supporting the local affiliated societies and the advancement of the geosciences in their application to hydrocarbon-related problems.

John's presentations and published papers on natural and induced fractures in reservoirs range geographically from the Lisburne Limestone in Alaska to the Shaikan Anticline in Kurdistan. These papers and presentations have been awarded several AAPG Levorsen and Jules Braunstein awards, culminating in the Sidney Powers Award, the association's top award for scientific achievement. He has worked closely with the oil and gas industry on problems involving reservoir dimensions and in situ permeability, receiving regular doses of reality while gaining extensive hands-on experience with core analysis and fieldwork.

John has led field trips, presented core workshops, and taught short courses for the industry-oriented geologic community. His work has been practical, aimed at improving the understanding of fracture-controlled reservoir permeability to enhance fluid extraction. John is also a commercial pilot and flight instructor, and has ferried aircraft across the U.S. in both directions east-west, as well as north-south.

Education

1981, Ph.D., Geology, Princeton University, Princeton, New Jersey
1975, M.Sc., Geology, University of South Carolina, Columbia, South Carolina
1972, B.A, Double major in Geology/Anthropology, Oberlin College, Oberlin, Ohio

Experience

2008-present, Partner, FractureStudies LLC, Edgewood, NM
2007-present, Geological Consultant, and flight instructor: Geoflight LLC, Edgewood, NM
1981-2007, Distinguished Member of Technical Staff, Sandia National Laboratories, Albuquerque, New Mexico
1975-1977, Geologist, US Geological Survey, Metairie, Louisiana, and Roswell, New Mexico
1972, Volunteer, Peace Corps Morocco, Casablanca, Morocco