

Martin M. Cassidy

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Professional Preparation:

1994-2005 Ph. D. Geology, University of Houston
1960-1962 Ph. D. Study geology, all but dissertation, Harvard University
1958-1960 M.S. Geology, University of Oklahoma
1951-1955 A.B. Cum Laude Geology, Harvard College

Appointments:

2005- present Research Scientist, Earth and Atmospheric Sciences, U.
of Houston.
Oct. 1994- 2005 Ph. D. candidate, consultant to the oil and gas industry.
Jun 1994 – Oct 1994 Amoco Production, Houston, Staff Geological
Associate.
Mar 1991 – Jun 1994 Amoco Production, Houston, Staff Geological
Associate.
Jun 1988 – Jun 1991 Amoco Production, Houston, Sr. Geological
Associate.
Sep 1986 – Jun 1988 Amoco Production, New Orleans, Sr. Geologic
Associate.
1984 – 1986 Amoco U.K. Exploration, London, Exploration Manager.
1983 – 1984 Amoco U.K. Exploration, London, Division Geologist.
1982 – 1983 Amoco U. K. Exploration, London, Division Operations
Supervisor. Operations.
1962 – 1982 Amoco Production Company, positions of increasing
responsibility.
1960-1962 Harvard University, Cambridge, Teaching Fellow.
1958 – 1960 Teaching Assistant, University of Oklahoma, Norman
Oklahoma.
1956 – 1958 USAF, Korea and Denver, Ammunition Officer.
1955 – 1956 Standard of Texas, Corpus Christi, Geologist.

Relevant Publications:

1. Ballentine, C. J, B. Marty, B. Sherwood Lollar, & M. **Cassidy** (2005), Neon isotopes constrain convection and volatile origin in the Earth's Mantle. *Nature* V. 434, p. 33-38.
2. **Cassidy**, M. M. (2005), Occurrence and origin of free carbon dioxide gas deposits in the earth's continental crust. Houston, Texas, University of Houston, Dept. of Geosciences. Ph. D. Dissertation, 242 pages.

3. Gilfillan, S.M.V., C. J. Ballentine, G. Holland, D. Blagburn, B. Sherwood Lollar, S. Stevens, M. Schoell, M. **Cassidy** (2008), The noble gas geochemistry of natural CO₂ gas reservoirs from the Colorado Plateau and Rocky Mountain provinces, USA. *Geochimica et Cosmochimica Acta* v. 72, p. 1174-1198.
4. Holland, G., M. **Cassidy**, C. Ballentine (2009), Meteorite Kr in Earth's Mantle Suggests a Late Accretionary Source for the Atmosphere. *Science*, V. 326, p. 1522-1525.

Synergistic Activities:

I organized the Publication Pipeline Committee of the American Association of Petroleum Geologists (AAPG). We collect used geoscience publications from retiring geoscientists, estates, and oil and gas companies. We arrange shipment over seas to Universities in need of them. For example this summer we shipped two pallets each of publications to 10 different Universities in Nigeria. The weight was about 1200 lbs. each pallet for a total of about 24,000 pounds. For this activity over the last 8 years I received the Distinguished Service Award of the AAPG.

In 2007- 2008 I was an investigator with Princeton Professor Christiano Galbiatti who was studying Dark Matter/Energy at Princeton and at the research facility of Gran Sasso, Italy, and his collaborator, fellow Princeton Professor Frank Calaprice. My part of the project was to direct them to a unique opportunity to sample gases containing Argon free of atmospheric contamination of radioactive argon 39. My experience in subterranean gases stems from my Ph. D. Dissertation at the University of Houston and from 32 years of oil and gas exploration was useful and the project was a success.

With Prof. Adry Bissada we have been awarded a grant from RPSEA of the DOE with the University of Texas Permian Basin for the study of Residual Oil Zones (ROZs) in the Permian basin of West Texas.

In spring 2011 I was elected President of the Houston Geological Society for the term July, 2011- July, 2012.