

DR. EMILIO MUTIS-DUPLAT

Vita - 1

Personal Data

Office Address: Geology, Department of Science and Mathematics
The University of Texas of the Permian Basin
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Home Address: 3915 Richmond Street
Odessa, Texas 79762-4609
Tel. 432/366-4079

Nationality: U.S.A. naturalized, 1985

Marital Status: Married. Wife's name: Cecilia

Children: Maria Elisa, Rafael Arturo, Maria Teresita (Flasco)

Education:

1. Department of Geology, Universidad Nacional de Colombia at Bogota, Colombia, 1957-1960. Degree of **Geologist and Geophysicist, May 1960.**
2. Department of Geology, University of California at Berkeley, California, graduate work, 1961-1962.
Supervisor: Dr. Charles Meyer.
3. Department of Geology, Texas A&M University, College Station, Texas, 1968-1969. **M.Sc., August 1969.**
Supervisor: Dr. James E. Case.
4. Department of Geological Sciences, The University of Texas at Austin, Texas, 1970-1972. **Ph.D., May 1972.**
Supervisor: Dr. Stephen E. Clabaugh.
5. **Post-Doctoral Fellowship:** Department of Geological Sciences, The University of Texas at Austin, Texas, July 1, 1972 - September 30, 1973.
Geothermal Survey of North America and Mapping of Stress Field in the Upper Earth's Crust of the U.S.A.
Projects Director: Dr. Ralph O. Kehle.

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Academic Experience

Assistant Professor of Geology, Universidad Nacional de Colombia at Bogota, Colombia, 1960-1965.

Associate Professor of Geology, Universidad Nacional de Colombia at Bogota, Colombia, 1966-1967.

Associate Professor of Geology, The University of Texas of the Permian Basin, Odessa, Texas, August 1, 1974 – August 31, 1981.

Professor of Geology, The University of Texas of the Permian Basin, Odessa, Texas, since September 1, 1981.

Administrative Experience

Dean, Faculty of Geology, Universidad Nacional de Colombia at Bogota, Colombia, June 1, 1964 – May 15, 1965.

Chairman, Department of Geology, Universidad Nacional de Colombia at Bogota, Colombia, May 16, 1965 – May 15, 1967.

Chairman, Department of Geology, The University of Texas of the Permian Basin, Odessa, Texas, November 1, 1982 – August 31, 1994.

Area Coordinator, Earth Sciences, Geography, Geology, and Physics, The University of Texas of the Permian Basin, Odessa, Texas, September 1, 1994 – September 20, 1999; since September 1, 2004

Graduate Head, Geology, The University of Texas of the Permian Basin, Odessa, Texas, September 1, 1984 – September 20, 1999; since September 1, 2004.

Professional Experience

Consulting petrologist for Geocolombia, Bogota, Colombia, 1963-1964.

Consulting geologist for Cementos del Norte, Cucuta, Colombia, 1964-1965.

Consulting petrologist for Phillips Petroleum Company, Bogota, Colombia, 1965-1966.

Consulting petrologist for Colombia Cities Service, Bogota, Colombia, 1965-1966.

Research Assistant, Department of Geology, Texas A&M University, 1968-1969. X-ray diffraction. Project Director: Dr. Thomas T. Tieh.

Research Scientist Engineer Assistant I, Department of Chemical Engineering, The University of Texas at Austin, Spring 1970. X-ray diffraction. Project Director: Dr. William F. Bradley.

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Research Scientist Associate IV, Bureau of Economic Geology, The University of Texas at Austin, June 1-30, 1972. Investigation of zeolites in Texas.

Consulting geologist for Earth Sciences Associates, Palo Alto, California, February 1, 1973 – May 31, 1973.

Consulting geologist for RCA, Camden, New Jersey, June 1, 1973 – December 31, 1973.

Exploration geologist, Texas Land & Trading Company, Inc., Austin, Texas, October 1, 1973 – July 31, 1974. Supervisor: Dr. Ralph O. Kehle, Vice-President.

Consulting geologist for Teknekron, Berkeley, California, April 1, 1974 – July 31, 1974.

Consulting geologist for Texas Land & Trading Company, Inc., Austin, Texas, October 1, 1974 – January 31, 1975.

Consulting petrologist for Union Texas Petroleum Corporation, Midland, Texas, 1980.

Technical translator for Texas Tanque Mfg. Co., Inc., Odessa, Texas, 1980.

Consulting petrologist for J. J. Miller, Odessa, Texas, 1980.

Technical translator for Petroleo Internacional, Tulsa, Oklahoma. 1981-1982.

Consulting geologist for Odessa Corporation, Odessa, Texas, 1981.

Technical translator for Freeland & Associates Advertising, Inc., Odessa, Texas, 1981-1982.

Consulting geologist for Southland Royalty Company, Midland, Texas, 1984.

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Publications

Mutis-Duplat, Emilio, 1969, Precambrian geology of a portion of the Purdy Hill quadrangle, Mason County, Texas (abs.): Geological Society of America Abstracts with Programs, v. 2, no. 4, p. 293-294.

Land, L.S., Mutis, Emilio, and Bradley, W.F., 1971, Crystallochemical and geochemical comparisons of recent with older dolomites (abs.): Forum on geology of industrial minerals, 7th, Tallahassee, Florida, 1971, Abstracts, p. 7.

Mutis-Duplat, Emilio, 1972, Stratigraphic sequence and structure of Precambrian metamorphic rocks in Purdy Hill quadrangle, Mason County, Texas (abs.): Geological Society of America Abstracts with Programs, v. 4, no. 4, p. 287.

Land, L.S., Mutis, Emilio, and Bradley, W.F., 1972, Crystallochemical and geochemical comparisons of recent with older dolomites, *in* Puri, H.S., ed., Forum on geology of industrial minerals, 7th, Tallahassee, Florida, 1971, Proceedings: Tallahassee, Florida, Florida Bureau of Geology Special Publication 17, p. 155-160.

Mutis-Duplat, Emilio, 1973, Stratigraphic sequence and structure of Precambrian metamorphic rocks in Purdy Hill quadrangle, Mason County, Texas (abs.): Dissertation Abstracts International, v. 33, no. 7, p. 3144B-3145B.

Kehle, R.O, Mutis-Duplat, Emilio, and von Schonfeldt, H.A., 1974, Mapping of stress field in the upper earth's crust of the U.S. (abs.): EOS, v. 55, no. 4, p. 425-426.

Mutis-Duplat, Emilio, 1975, Lost Creek Gneiss in the Purdy Hill quadrangle, Mason County, Texas (abs.): Geological Society of America Abstracts with Programs, v. 7, no. 2, p. 220.

Mutis-Duplat, Emilio, 1978, Origin of Precambrian migmatites in Purdy Hill quadrangle, Mason County, Texas (abs.): Geological Society of America Abstracts with Programs, v. 10, no. 1, p. 23.

Mutis-Duplat, Emilio, 1982a, Adelantos en la exploracion petrolera (Advances in petroleum exploration): Petroleo Internacional, v. 40, no. 3, p. 36-43.

Mutis-Duplat, Emilio, 1982b, Geology of the Purdy Hill quadrangle, Mason County, Texas: University of Texas Bureau of Economic Geology Geologic Quadrangle Map No. 52, 1 map, 22 p. text.

Mutis-Duplat, Emilio 1983, La prospeccion geofisica hoy y manana (Geophysical prospection today and tomorrow): Petroleo Internacional, v. 41, no. 6, p. 56-61.

Mutis-Duplat, Emilio, 1990, Disseminated gold deposits: Carlin Trend, Nevada (abs.): Society of Exploration Geophysicists, Forty-Third Annual Midwest Meeting and Exposition, March 25-27, 1990, Midland, Texas, Official Program, p. 45-46.

Mutis-Duplat, Emilio, 1999, Surface geology, *in* Rives, J.L., Soil survey of Loving and Winkler Counties, Texas: United States Department of Agriculture, Natural Resources Conservation Service, p. 100-103. (Available on the Internet only).

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Mutis-Duplat, Emilio, and Gray, M.W., *in press*, Surface geology, *in* Soil survey of Mason County, Texas: United States Department of Agriculture, Natural Resources Conservation Service.

Gray, M.W., and Mutis-Duplat, Emilio, *in preparation*, Geology of the Art quadrangle, Mason County, Texas: field mapping completed, text being written.

Mutis-Duplat, Emilio, and Gray, M.W., *in preparation*, Geology of the Mason quadrangle, Mason County, Texas: field mapping completed, text being written.

Mutis-Duplat, Emilio, and Gray, M.W., *in preparation*, Geology of the Panther Creek quadrangle, Mason County, Texas: field mapping completed, text being written.

Mutis-Duplat, Emilio, and Gray, M.W., *in preparation*, Geology of the Loyal Valley quadrangle, Mason County, Texas: field mapping in progress.

Mutis-Duplat, Emilio, and Gray, M.W., *in preparation*, Geology of the Fredonia quadrangle, Mason and San Saba Counties, Texas: field mapping in progress.

Research Papers

Mutis-Duplat, Emilio, 1969, Precambrian geology of a portion of the Purdy Hill quadrangle, Mason County, Texas: Unpublished M.Sc. thesis, Texas A&M University, 90 p.

Mutis-Duplat, Emilio, 1972, Stratigraphic sequence and structure of Precambrian metamorphic rocks in Purdy Hill quadrangle, Mason County, Texas: Unpublished Ph.D. dissertation, The University of Texas at Austin, 154 p.

Proprietary Reports

Barnes, V.E., Kehle, R.O., and Mutis-Duplat, Emilio, 1973, Sanguine Project: Report on geologic/hydrologic data, final delivery for July 30, 1973. Submitted to RCA, Camden, New Jersey.

Mutis-Duplat, Emilio, and Kehle, R.O. 1975, Geologic considerations in siting a proposed nuclear-generating plant in the San Antonio region, Texas. Submitted to Teknekron, Berkeley, California.

Mutis-Duplat, Emilio, 1980a, Petrographic study of thin sections from cores of Arco OCS Y-0161 # 1: Submitted to Union Texas Petroleum Corporation, Midland, Texas.

Mutis-Duplat, Emilio, 1980b, Petrologic study of thin sections from core of Hinson Farms No. 2, Lamb County, Texas: Submitted to J.J. Miller, Odessa, Texas.

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Mutis-Duplat, Emilio, 1984, Geology and petrography of the Harper prospect, Presidio County, Texas: Submitted to Southland Royalty Company, Midland, Texas.

Mutis-Duplat, Emilio, and Gray, M.W., 1994, Preliminary geologic report on the land owned by the family of Seth P. Martin, Jr. in Mason County, Texas: Submitted to Mr. Seth P. Martin, Jr., Mason, Texas.

Other Papers

Mutis-Duplat, Emilio, 1976, Governance: Recommending and making policy in The University of Texas System: Position paper submitted to the conference on The Mission of the U.T. System: Directions for the future, Odessa, Texas, April 10, 1976. Adopted as The U.T. System working paper on Governance during The U.T. System Conference at Dallas, Texas, May 5 and 6, 1976.

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M.Sc. Theses Supervised

December 1984

Sherif, Alamin Abdalla, Precambrian geology of a portion of the Mason quadrangle, Mason County, Texas.

May 1986

Martin, James Oliver, Geology of the central portion of the Mason quadrangle, Mason County, Texas.

May 1988

Davis, Danny Ray, Geology of Aragon Hill area, Sierra and Socorro Counties, New Mexico.

Lydecker, William Frederick, Geology of the southern half of the Spy Rock quadrangle, Mason and McCulloch Counties, Texas.

Spencer, Jesse Garvin, Geology of the northern portion of the Panther Creek quadrangle, Mason County, Texas.

August 1988

Zdinak, Andrew Patrick, Geology of the northwestern portion of the Loyal Valley quadrangle, Mason County, Texas.

December 1988

Lambert, Patricia Frost, Geology of the northeastern portion of the Fredonia quadrangle, San Saba County, Texas.

August 1990

Leach, James Wyatt, Geology of the southwestern portion of the Fredonia quadrangle, Mason County, Texas.

December 1991

Gray, Miles Wayne, Geology of the western portion of the Art quadrangle, Mason County, Texas.

May 1992

Smith, W. Roger, Geology of the southwestern margin of the Nogal Canyon Cauldron, San Mateo Mountains, Sierra and Socorro Counties, New Mexico.

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May 1993

Le, Canh Thang, Geology of the northern and northwestern parts of the Grit quadrangle, Mason County, Texas.

May 1995

Schoellkopf, Alexander Paul, Geology of the northern part of the Turtle Creek quadrangle, Mason County, Texas.

December 1995

Sheffield, Thomas Donald, Geology of the southern half of the Katemcy quadrangle, Mason County, Texas.

December 1998

Deso, Michael Eugene, San Saba Member of the Wilberns Formation, upper Cambrian, in south-central Mason County, Texas.

May 1999

von Lunen, Eric, Observations of acoustic log/petrophysical data and geophysical implications for the Permian Basin.

December 1999

Robertson, Renee Marie, Depositional environments, diagenesis, and reservoir properties of the Blackwatch (San Andres) Field, Gaines County, Texas.

Ackerman, Jennifer Louise, Reservoir description of the BC4 producing zone in the lower Brushy Canyon Formation, Lost Tank West (Delaware) Field, Eddy County, New Mexico.

May 2000

Larson, Thomas Carl, Morgan Creek Limestone Member of the Wilberns Formation, upper Cambrian, in south-central Mason County, Texas.

Gann, Debrah Sue, Point Peak Member of the Wilberns Formation, upper Cambrian, in south-central Mason County, Texas.

May 2003

Ashley, Mark William, Depositional environment of the "no-coal zones" within the Wyodak coal, Tongue River Member of the Fort Union Formation, Powder River Basin, Wyoming.

Coker, April Denise, Depositional environments of the Morrow Formation in the Osudo Field, Lea County, New Mexico.

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May 2004

Crain, Cynthia Kay, Cap Mountain Limestone Member of the Riley Formation, upper Cambrian, in south-central Mason County and northeast Llano County, Texas.

May 2005

Hawkins, James Lloyd, Do earth tides play a role in earthquake activity?

Fletcher, James Wilburn, Welge Sandstone Member of the Wilberns Formation, upper Cambrian, in southeastern Mason County, Texas.

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Committees

The University of Texas System

Member President Search Committee (for the President of The University of Texas of the Permian Basin), 2000-2001.

The University of Texas of the Permian Basin

Southern Association of Colleges and Schools, Self-Study for Re-Accreditation:
Chairman Steering Committee, 1988-1990.

Graduate Council: Chairman, 1983-1986, 1987-1997.
Member, 1980-1986, 1987-1997.

Faculty Senate: President, August 1975 – August 1976.
Vice-President, February 1975 – July 1975.
Member, February 1975 – August 1977, 2004-2006/
Committees Member: Faculty Affairs Committee, 1997-2000, 2001-2003, 2004-2005.
Curriculum Committee, 1998-1999.
Budget and Governance Committee, 1998-1999.

Post-Tenure Review: Chairman, 2000-2001, 2001-2002.
Member, 1999-2002.

Assessment Committee: Member, 1998-2005.

Awards and Recognition Committee: Member, 1975-1976.

Commencement Committee: Chairman, 1981-1982, 1983-1984.
Member, 1977-1984.

Instructional Development Committee: Member, 1979-1980.

Library and Media Committee: Member, 1987-1993, 2004-2005.

Safety Committee: Chairman, 1976-1977.

Grant Development Review Committee: Member, 1998-2000.

Tenure, Promotion, and Retention Committee of the College of Arts and Science:
Chairman, 1998-1999
Member, 1997-1999, 2002-2004.

Search Committee for Assistant Professor of Chemistry in the College of Arts and Sciences:
Member, 2001.

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School of Business: Committee for the Search of Dean of the School of Business, Member, 1998.
Committee on Tenure, Promotion, and Retention, Member, 2000-2001.

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Membership in Professional Societies

Fellow (elected) of: The Geological Society of America
The Geological Society of London
The Geological Association of Canada
Edinburgh Geological Society
Mineralogical Society of London
Society of Economic Geologists

Member (elected) of: Society of Exploration Geophysicists
American Geophysical Union
Society for Mining, Metallurgy, and Exploration (AIME)
The Canadian Institute of Mining, Metallurgy, and Petroleum
Society for Geology Applied to Mineral Deposits (Europe)
International Association for the Genesis of Ore Deposits
Geologists' Association (London)

Member of: International Association of Volcanology and Chemistry of the Earth's Interior
Geochemical Society
Mineralogical Society of America
Mineralogical Association of Canada
European Union of Geosciences
The Association of Exploration Geochemists
Society for Sedimentary Geology (SEPM)
Geologische Vereinigung E.V. (Austria)
West Texas Geological Society

Honors

Member of Sigma-Gamma-Epsilon.

Nominated for the Amoco Award for Outstanding Teaching, The University of Texas of the Permian Basin, 1979-1980, 1983-1984, and 1984-1985.

Nominated for the Chancellor's Council Award for Outstanding Teacher, The University of Texas of the Permian Basin, 1988-1989, 1989-1990, 1990-1991, 1991-1992, 1992-1993, and 1995-1996. Finalist, 1988-1989, and 1989-1990.

The University of Texas of the Permian Basin 1990-Nominee for the Piper Professor Award.

Awards

1989 Presidential Award for Distinction in Teaching, The University of Texas of the Permian Basin.

Plaque in Recognition for the Outstanding Support as Advisor to the Student Senate, The University of Texas of the Permian Basin, 2000-2001.

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Grants

Burlington Resources Foundation grant of \$ 10,000.00 to improve and maintain fieldwork facilities in Mason, Texas, January 1991.

Burlington Resources Foundation grant of \$ 10,000.00 to improve and maintain fieldwork facilities in Mason, Texas, April 1993.

Parker and Parsley Petroleum USA Inc. donation of \$ 5,000.00 to support fieldwork in Mason, Texas, May 1995.

July 1, 2005