

VITA

Name:

University of Texas	1964-1970	Ph.D.	1970	Geology
Michigan State University	1963-1964	M.S.	1967	Geology
City College of New York	1958-1963	B.S.	1963	Geology
University of Texas	1964-1970	Ph.D.	1970	Geology
Michigan State University	1963-1964	M.S.	1967	Geology
City College of New York	1958-1963	B.S.	1963	Geology

Dr. Henry Simon Chafetz Academic Background:

Teaching Experience:

University of Houston	1970-present	Assistant Professor to Professor
University of Texas	1969-1970	Teaching Assistant
	1964-1966	Teaching Assistant
Michigan State University	1964	Teaching Assistant
City College of New York	Summer 1964	Lecturer

Awards:

S.E.P.M. Outstanding Paper Award, 1984, for:
Chafetz, H.S., and Folk, R.L., Travertines: Depositional morphology and the bacterially constructed constituents: Jour. Sed. Petrol., 54:289-316.

Theses:

Petrography and stratigraphy of the strata of the Lower-Middle Ordovician contact, central Pennsylvania; 1967, Michigan State University, 86p.

Petrology and stratigraphy of the lower part of the Wilberns Formation, Upper Cambrian of central Texas; 1970, University of Texas at Austin, 232p.

Papers:

Chafetz, H.S., 1969, Carbonates of the Lower and Middle Ordovician in central Pennsylvania: Penn. Geol. Surv., Gen. Geol. Rept., G 58, 39p.

Chafetz, H. S., 1972, Surface diagenesis of limestone: Jour. Sed. Petrol., 42:325-329.

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Geeslin, J.H., and Chafetz, H.S., 1982, Ordovician Aleman Ribbon cherts: An example of silicification prior to carbonate lithification: *Jour. Sed. Petrol.*, 52:1283-1293.

King, D.T., and Chafetz, H.S., 1983, Sedimentary facies representing tidal flat to shallow shelf environments in the Cap Mountain Limestone Member of the Riley Formation, Upper Cambrian of central Texas: *Jour. Sed. Petrol.*, 53:261-273.

Folk, R.L., and Chafetz, H.S., 1983, Pisoliths (pisoids) in Quaternary travertines of Tivoli, Italy: In: Peryt, T.M., ed., *Coated Grains*, Springer-Verlag, p. 474-487.

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Chafetz, H.S., Meredith, J.C., and Kocurek, G., 1986, The Cambro-Ordovician Bliss Formation: Progradational sequences on a mixed siliciclastic and carbonate shelf: *Sed. Geol.*, 49:201- 221.

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- Bose, S., and Chafetz, H.S., 2012, Morphology and distribution of MISS: A comparison between modern siliciclastic and carbonate settings: in *Microbial Mats in Siliciclastic Depositional Systems Through Time*, SEPM Spec. Publ. # 101, p. 3-14.
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Papers In Press:

Papers In Review:

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- Casillas, M.B., and Chafetz, H.S., 2008, From pristine to diagenetically altered skeletal material: Examples from the south Texas Gulf Coast: Geological Society of America, Abstracts with Program 304-5.
- Strasen, J.S., and Chafetz, H.S., 2008, Rare carbonate eolianites in the Middle Jurassic Lower Sundance Formation, bighorn Basin, north-central Wyoming: Geological Society of America, Abstracts with Program 124-10.
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- Chafetz, H.S., 2011, Bacterial shrubs and ray crystal deposits: TOTAL workshop on lacustrine and travertine deposits, Pao, France.
- Chafetz, H.S., 2011, Bacterially induced precipitates of minerals, Boise, Idaho, Karst Waters Institute conference: Carbonate Geochemistry: Reactions and processes in aquifers and reservoirs.
- Chafetz, H.S., 2012, Bacterially induced spherulites: Examples from Hot Springs, Cold Springs, and Pedogenic environments: American Association of Petroleum Geologists, Long Beach, Calif., April, 2012.
- Krimmel, J.S., and Chafetz, H.S., 2012, The role of sulphate-reducing bacteria and unconsolidated organic matter in the formation of primary dolomite: American Association of Petroleum Geologists, Long Beach, Calif., April, 2012.
- Chafetz, H.S., 2012, Travertine: Macro- and micro-porosity: American Association of Petroleum Geologists, Hedberg Conference, Houston, Texas, June, 2012.
- Owens, J., and Chafetz, H.S., 2012, Paleoenvironments and petrology: Virgelle Member, Eagle Formation of the Elk Basin (Wyoming and Montana). Rocky Mountain Section, American Association of Petroleum Geologists.
- Chafetz, H.S., 2013, Spherulites of bacterial origin: hot spring, cold spring, caliche, lacustrine, stromatolites, and reefs. Microbial Days conference, Pau, France, Feb. 2013.
- Cook, M., and Chafetz, H.S., 2014, Transitional terraced mound to sloping mound facies relationships of a Quaternary travertine quarry in Belen, New Mexico: American Association of Petroleum Geologists, Houston, Texas, April, 2014.
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Chen, X., T.J. Lapen, R. Andreasen, M. Richter, A.J Irving, and H.S. Chafetz, 2016, Silicon isotope composition of ungrouped Achondrite, northwest Africa 7325. the Lunar and Planetary Science Conference, Abstract

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Priewisch, A., Crossey, L.J., Karlstrom, K.E., Chafetz, H.S., and Cook, M.A., 2016, Geochronology and geochemical analysis of Quaternary travertine deposits at the Belen quarries of Mesa Aparejo, NM: Evaluation of travertine facies for paleohydrology and paleoenvironmental studies: New Mexico Geological Society Guidebook, 67th Field Conference, p. 405-418.

Chafetz, H.S., 2017, Pre-Salt Spherulites: Bacterially induced initiation of precipitation. American Association of Petroleum Geologists, Houston, April, 2017.

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Miscellaneous Published Material:

Chafetz, Henry S., and Folk, Robert L., 1981, Sedimentology photographs of bacteria and bacterially constructed shrubs in travertine: *Jour. Sed. Petrol.*, 51:1162.

Honda, H., Folk, Robert L., and Chafetz, Henry S., 1982, Sedimentology photographs of "rotten" calcite crystals from bacterial mats comprising travertine deposits: *Jour. Sed. Petrol.*, 52:1294.

Chafetz, Henry S., and Folk, Robert L., 1983, Sedimentology photographs of spikes comprising the surface of rhombic calcite cement in travertine: *Jour. Sed. Petrol.*, 53:274.

Folk, Robert L., Chafetz, Henry S., and Tiezzi, Pamela A., 1984, SEM view of "Jaws" - spikes within calcite rhomb: *Geology*, 12:3:front cover.

Photomicrographs of carbonate thin sections of secondary porosity in *Sedimentary Petrology*, 2nd edition, 1992, by Blatt, H., publ. by W.H. Freeman.

Photograph of carbonate SEM modern travertine deposit in *Petrography to Petrogenesis*, 1995, by Hibbard, M.J., publ. by Prentice Hall

Isotopic data, from Rush & Chafetz (1990), supplied upon request to: U. Brand, for his book, *Sedimentary Geochemistry*, in preparation.

Photographs of SEM's of bacterially induced carbonate precipitates sent upon request to H. L. Ehrlich for the 3rd edition of his book, *Geomicrobiology*, published by Marcel Dekker.

Book Review: Monty, C.L.V., Bosence, D.W.J., Bridges, P.H., and Pratt, B.R., (eds.), 1995, *Carbonate Mud Mounds: their origin and evolution*: Spec. Publ. # 23 of International Association of Sedimentologists, 537p.; in *Sedimentary Geology*, v. 105: p.109-110.

Guidry, S.A., and Chafetz, H.S., 2000, Diagenetic Alteration in Yellowstone Hydrothermal Systems: Factors Affecting Preservation of Organics: American Association of Petroleum Geologists and Society of Exploration Geophysicists Student Expo., p.13.

Chafetz, H.S., 2000, Travertine and bacterially induced precipitate set of 35mm slides accompanied by text, in Scholle, P.A., and James, N.P., (eds.), SEPM Photo CD-22, Carbonate Diagenesis I: Limestones.

Copies of published SEM micrographs requested to be reprinted in the 3rd edition of "Statistics and Data Analysis in Geology" by Davis, J.C., John Wiley & Sons Publ.

Chafetz, H.S., 2003, Petrographic and SEM photographs published as part of "A color guide to the petrography of carbonate rocks: Grains, textures, porosity, diagenesis" authored by Scholle, P.A., and Ulmer-Scholle, AAPG Mem. #77, 474 p.

Invited Lectures:

Rice University, 1977, "A tale of two trough cross-stratified sandstone deposits".

S.E.P.M. Research Conference, "Madison, Wisconsin, 1980, Regressive sedimentological patterns, Upper Cambrian Bliss Sandstone, Silver City Range, southwestern New Mexico".

Tulane University, 1984, "Travertine: Origin and diagenesis".

University of New Orleans, 1984, "Cambro-Ordovician Bliss Formation: A transgressive deposit composed of progradational sequences" and "Travertine: Origin and diagenesis".

Texaco Oil Company, Houston Research Center, 1987, "Bacterially induced precipitation of calcium carbonate in modern cyanobacterial mats".

University of South Carolina, 1987, "Travertine, marine peloids, and stromatolites: The bacterial connection" and "Freshwater phreatic diagenesis in the marine realm".

University of Houston, Downtown Campus, 1987, "Travertine, marine peloids, and stromatolites: The bacterial connection".

Texas A & M University, 1988, "Geochemistry & petrology of the "550" travertine deposit: An example of microenvironmental controls on carbonate precipitation".

Louisiana State University, 1990, "Travertine: biotic and abiotic precipitates".

Glasgow University, Scotland, 1991, "Bacterially induced precipitates of calcite and aragonite"; symposium on "The Organic-Inorganic Interface - Geological, Chemical and Biological Potential".

University of Houston, 1992, "Travertine".

Cambridge University, Cambridge, England, 1992, "Bacterially induced carbonate precipitation & lithification of stromatolites" & "Multistage diagenesis of a Pleistocene limestone from the Arabian Gulf".

Exxon Long Range Research Seminar, Houston, 1993, Bacterially induced precipitates of calcium carbonate and lithification of microbial mats.

Harvard University - M. I. T. Stromatolite Workshop, @ Harvard, 1993, Two presentations: "Bacteria in ancient carbonates" & "Travertine bacterial stromatolites".

University of Oldenburg, Germany, 1993, "Bacterially induced precipitates of calcium carbonate and lithification of microbial mats"; stabilization of sediments by microbial mats symposium.

McMasters University, Ontario, Canada, 1993, "Ambient and hot water travertines: Constituents and geochemistry"; 3rd Internat. Geomorphology Conf.

Karst Waters Institute, Colorado Springs, Colorado, 1994, "Bacterially induced precipitates of calcium carbonate: habit and mineralogy"; Breakthroughs in karst geomicrobiology and redox geochemistry symposium.

FES-Sais University, FES, Morocco, 1994, "Ambient and hot water travertines; constituents and geochemistry".

FES-Sais University, FES, Morocco, 1995, "An overview of travertine accumulations".

Harvard University, 1996, "Bacterially induced precipitates of calcium carbonate in the rock record".

University of Zaragoza, Spain, 9/97, "Lithification of microbial mats by bacterially induced precipitation" & "Travertines: More than you ever wanted to know"

University of Saskatchewan, Canada, 2/98, "Abiotic vs biotically induced shrub formation"

Symposium co-convenor at the International Sedimentary Congress, Alicante, Spain, 4/98, "Microbial life and the sedimentary record of earth's history"

Graduate Seminar in Microbiology, Biology Dept., Univ. Houston, 3/98, Bacterially induced mineral precipitates.

South Florida University, 1999, Bacterially induced precipitates.

Lunar & Planetary Institute: 2000, Bacterially induced precipitates of carbonate minerals.

Microbial Marks in Minerals Research Conference (sponsored by SEPM), 2000, Keys to recognition of bacterially induced carbonate precipitates (cancelled because of spiralling costs).

National Speleological Society Annual Convention. 2000, Bacterially induced precipitates: Laboratory products and natural.

Invited to be the keynote speaker for the Travertine Symposium at the 32nd International Geological Congress in Florence, Italy, August, 2004.

Invited to be a keynote speaker at a Travertine Symposium in Pamukkale University, Pamukkale, Turkey, Sept 2005, as well as a member of the scientific steering committee; travel and all other expenses to be paid for by the symposium organizers.

Studies in Progress:

Bacterially induced precipitation of carbonates

Deposition and diagenesis of hot water travertine, tufas, & siliceous sinter systems.

Financial Support:

Sigma Xi Grant-in-Aid of Research, 1967. Faculty Research Initiation Grant, 1971.

Gulf Oil Corporation, 1973, \$3,733, for purchase of a Luminoscope.

N.S.F. Short Course, sponsored participant, 1973, Modern carbonate sediments and related carbonate rocks, Florida Keys and the Bahamas.

Tenneco Foundation, 1975, 1976, \$2,000/ year, Support of coastal studies program.

Minnie Stevens Piper Foundation, 1975, 1976, 1979, \$1,000/year, Support of coastal studies program.

Link-Oceans Foundation, 1975, \$1,000, Study of sedimentation and geochemistry of Christmas Bay, Texas.

ARCO, 1982, \$2,500, Deposition and diagenesis of sediments from the Arabian Gulf, support for M.S. student Allene McIntosh.

ARCO, 1984, \$3,500, Temporal distribution of carbonate cements, support for Ph.D. student Patrick Rush.

Getty Oil Corp., 1984, \$2,500, Origin and diagenesis of geodes, co-P.I. with J.C. Butler (U. H. Geosci.).

S.M.G. Tech., 1984, \$5,000, Origin, composition, and engineering properties of sediments from Pleistocene Lake Lahontan, co-P.I. with F. Worley (U. H. Chem. Engr.) and D. Clifford (U. H. Civ. Engr.).

Union Oil Company, 1984, \$300, Diagenesis of carbonate rocks, funding for operating expenses of Atomic Absorption unit.

U. H. Coastal Center, 1984-1985, \$900, Destruction of algal mats: The bacteria did it.

U. H. Coastal Center, 1984-1985, \$500, Relationships between bay margin sand bodies and wave energy.

Union Oil Company, 1985, \$1,900, Support of investigations concerning carbonate sedimentology.

New Mexico Bureau of Mines and Mineral Resources, 1985, \$650, Support of field study on the Panther Seep Formation, San Andreas Mountains, New Mexico.

U. H. Coastal Center, 1985-1986, \$2,307, Stromatolites and the significance of the bacterially induced precipitation of CaCO_3

Texaco Oil Company (Houston Research Center), 1986, \$18,883, Bacterially induced precipitation of CaCO_3 .

U. H. Coastal Center, 1987-1988, \$1,900, Bay margin sand distribution: A predictive model for microtidal bays and lagoons.

U. H. Coastal Center, 1988-1989, \$4,200, Marine diagenesis of caliche nodules.

Amer. Chem. Soc.-Petrol. Res. Fund, 9/87-8/89, \$34,840, Recent carbonate deposits from the Arabian Gulf: An investigation of elemental partitioning downflow in a freshwater aquifer and diagenesis of sabkha-type dolomite.

Dept. of Energy, 8/87-4/90, \$71,516, Bacterially induced precipitation of CaCO_3 : An example from studies of modern cyanobacterial mats.

U. H. Coastal Center, 1989-1990, \$3,500, Bacterially induced precipitation of calcium carbonate.

N.S.F., 10/15/87-9/31/91, \$81,658, Recent carbonate deposits from the Arabian Gulf: An investigation of elemental partitioning downflow in a freshwater aquifer and diagenesis of sabkha-type dolomite.

- U. H. Coastal Center, 1990-1991, \$1,500, Funding to travel to Loch Lomond, Scotland, to present paper on "Bacterially induced precipitation of calcium carbonate".
- Conference sponsors providing £300 sterling (~\$600) for me to present paper at conference, "The Inorganic-Organic Interface - Geological, Chemical and Biological Potential"
- N.S.F. Joint U.S.-Yugoslav Program, 9/88-8/91, \$48,000, Petrology of the Plitvice Lakes travertine accumulation, Plitvice Lakes National Park, Yugoslavia: co-P.I. with Dr. Nada Horvatincic (Ruder Boskovic Institute, Zagreb, Yugoslavia).
- British Sedimentological Research Group, 1992, £400 sterling (~\$750), invited to present at Microbial Carbonate symposium by convenors: paper "Bacterially induced precipitates of calcium carbonate: Laboratory, modern accumulations, & the rock record".
- Amer. Chem. Soc.-Petrol. Res. Fund, 6/90-8/93, \$40,000, Relationships between the geochemistry of the waters and the geochemistry and petrography of the precipitates within hot water travertine systems.
- U. H. Coastal Center, 1992-1993, \$900, Funding to travel to London, England, to present an invited paper at the British Sedimentological Research Group symposium on Microbial Carbonates, paper: "Bacterially induced precipitates of calcium carbonate: Laboratory, modern accumulations, & the rock record".
- European Community, 1993, ~\$2,000, Funding to travel to Oldenburg, Germany, plus food and lodging during conference on "Stabilization of microbial mats".
- Harvard University - M. I. T. Stromatolite Workshop, @ Harvard, 1993, Paid airfare plus lodging and food for 3 days of conference at which I made two presentations: "Bacteria in ancient carbonates" & "Travertine bacterial stromatolites".
- Karst Waters Institute, 1994, ~\$700, Funding to travel plus food and lodging at Colorado Springs, Colorado, to be a keynote speaker and session chair at conference on "Breakthroughs in karst geomicrobiology and redox geochemistry", mtgs 2/94.
- U. H. Coastal Center, 1994-1995, \$11,750, Diagenetic evolution of Pleistocene reef terrace limestones, Bonaire, Netherlands, Antilles.
- N.S.F., Science in Developing Countries, 1/94 - 12/97, \$30,950, Origin, paleoclimatic relationships, and diagenesis of Quaternary Moroccan travertines.
- U. H. Coastal Center, 1995-1996, \$11,225, Diagenetic evolution of Pleistocene reef terrace limestones, Bonaire, Netherlands, Antilles.
- Amer. Chem. Soc.-Petrol. Res. Fund, 1/1/95-8/31/97, \$50,000, Sr and C isotopic signatures of multiple exposure surfaces within Quaternary dolomites and origin of Quaternary authigenic quartz.
- Amer. Chem. Soc.-Petrol. Res. Fund, 6/1/97-8/31/99, \$50,000, Stable isotopic water chemistry of travertine precipitating streams.
- Environmental Institute (Univ. Houston), 10/13/00 - 8/31/01, \$12,000, Are spelean and travertine deposits reliable recorders of climate?
- Amer. Chem. Soc.-Petrol. Res. Fund, 6/1/99-8/31/01, \$60,000, Bacterially induced precipitation of dolomite.

N.A.S.A., 3/10/99 – 3/09/04, \$7,699,966, Institute for the study of biomarkers in astromaterials, McKay, D., @ J.S.C. N.A.S.A. is P.I., (H.C. = \$100,000).

Environmental Institute (Univ. Houston), 10/04 - 8/31/05, \$12,075, Microbial Mat Induced Sedimentary Structures (MISS), Texas Gulf Coast

Environmental Institute (Univ. Houston), 10/05 - 8/31/06, \$14,845, Caliche: Description, distribution, and origin (biotic vs abiotic).

Amer. Chem. Soc.-Petrol. Res. Fund., 7/1/03-8/31/06, \$80,000, Mn-rich hot spring deposits: Abiotic or biotically induced precipitates, P.I.

Donation: Corelabs, 3/07, \$10,000, unrestricted funding to conduct research for myself and my students.

Donation: Corelabs, 8/08, \$10,000, unrestricted funding to conduct research for myself and my students.

Present Financial Support:

Donation: Anonymous, 4/08, \$10,000, unrestricted funding to conduct research for myself and my students.

Donation: Corelabs, 8/09, \$5,000, unrestricted funding to conduct research for myself and my students.

Donation: Corelabs, 8/10, \$10,000, unrestricted funding to conduct research for myself and my students.

Donation: Corelabs, 9/11, \$10,000, unrestricted funding to conduct research for myself and my students.

Donation: Sean Guidry plus ExxonMobil match, 12/2011, \$4,500, unrestricted funding to conduct research for myself and my students.

TOTAL (French National Oil Co.), 5/2012 – 5/2014, \$89,379 (1st year), Petrology of travertine accumulation, Belen, New Mexico.

TOTAL (French National Oil Co.), 5/2012 – 5/2014, \$ 79,253 (1st year), Petrology of travertines at Lyman Lakes, Arizona.

TOTAL (French National Oil Co.), 5/2012 – 5/2014, \$ 28,833, Origin of spherulites in travertines and other non-marine carbonates.

Donation: Sean Guidry plus ExxonMobil match, 12/2012, \$4,500, unrestricted funding to conduct research for myself and my students.

Donation: Corelabs, 9/12, \$10,000, unrestricted funding to conduct research for myself and my students.

Short Courses Attended:

Modern carbonate sediments and related carbonate rocks, Florida Keys and the Bahamas, 1973.

Principles and application of coal petrology, 1980.

Carbonates: Mineralogy and chemistry, 1983. Paleokarst-related hydrocarbon reservoirs, 1993.

Completed Theses Supervised:

- Taber, Edward C., 1971, Clay diagenesis and Holocene sediments of Galveston Bay and adjacent continental shelf, 74p.
- Ladle, Garth Harrison, 1972, The sedimentary petrography and sedimentation of the Deadwood Formation in the Black Hills, South Dakota, 179p.
- Piety, William Duncan, 1972, Surface sediment facies and physiography of a recent tidal delta, Brown Cedar Cut, central Texas coast, 208p.
- Baker, Ben A., 1975, Stratigraphy and depositional environments of Lower Pliocene strata from the Ventura Avenue Field, California, 123p.
- Vance, George Finger, 1976, Holocene sediments of Mission Bay, Texas, 112p.
- Robinson, Bob Russell, 1976, Stratigraphy and environment of deposition of member 9 of the Rawls Formation, Persidio County, Texas, 151p.
- King, David T., 1976, Stratigraphy and petrology of the upper part of the Riley Formation, Upper Cambrian of central Texas, 263p.
- Creger, Robert Bruce, 1977, Stratigraphic analysis of the New Bielau - 7500 foot Wilcox Field, western Colorado Country, Texas, 190p.
- Kocurek, Gary, 1977, Petrology and environment of deposition of the Percha Formation, Upper Devonian, southwestern New Mexico, 137p.
- Dean, Johnny R., 1977, Recent sedimentary environments and diagenesis of marine carbonates from the Persian Gulf, 102p.
- Robinson, Barbara Spense, 1978, Stratigraphy and petrography of the Persidio Formation, Persidio County, Texas, 118p.
- Adedokun, Oluwatele A., 1979, Genesis and environmental analysis of reservoir sands of Ossu- Izombe oil field of the Niger Delta, 208p.
- Geno, Kirk R., 1980, Coated Grains in recent fluvial carbonate sediments of central Texas, 126p.
- Geeslin, Jill H., 1980, The cherty Aleman dolomite Member of the Montoya Formation, 144p.
- Meredith, John C., 1980, Diagenesis of Holocene-Pleistocene(?) travertine deposits: Fall Creek, Bonneville County, and Fritz Creek, Clark County, Idaho, 263p.
- Herlinger, David L., 1981, Petrology and petrogenesis of the Fall Creek travertines, Bonneville County, Idaho, 172p.
- Myers, Keith, 1983, Petrology and depositional environments of the Lake Valley Formation, lower Mississippian, southwestern New Mexico, 166p.
- McIntosh, Allene G., 1983, The depositional environments and diagenesis of sediments from the Arabian Gulf, 209p.
- Buczynski, Chris, 1985, The sedimentology and diagenesis of the Lueders Formation (Permian) of Baylor County, Texas, 227p.
- Love, Karen M., 1985, Petrology of Quaternary travertine deposits of the Arbuckle Mountains, Oklahoma, 240p.

- Bruno, Lawrence, 1987, Depositional environments and diagenesis of the Cable Canyon Sandstone and Upham Dolomite, Ordovician of southern New Mexico, 278p.
- Graber, Karen K., 1988, Stratigraphy and petrography of bedded barite in phosphatic Devonian Slaven Chert, Toquima Range, Nye County, central Nevada, 321p.
- Utech, Nancy M., 1988, Geochemical and petrographic analyses of travertine precipitating waters and associated travertine deposits, Arbuckle Mountains, Oklahoma, 367p.
- Baerenwald, Paul D., 1989, Marginal sediment distribution in a microtidal lagoon: East Matagorda Bay, Texas, 157p.
- Stevens, Gregory A., 1990, The petrography, diagenesis, and depositional environment of carbonate mud mounds of the Strawn Formation (Pennsylvanian), Northwest Shelf of the Permian Basin, southeastern New Mexico, 154p.
- Pollard, Nick B., 1990, Depositional environments, diagenesis, and regional paleogeography for the Upper Glen Rose "D" (Lower Cretaceous) interval, Leon and Houston Counties, Texas, 248p.
- Pierce, Duane B., 1990, Petrography and provenance of siliciclastic sands from a carbonate environment, Arabian Gulf, Saudi Arabia, 216p.
- Fitzmaurice, Sean P., 1990, The petrography, geochemistry, and depositional environments of travertines, Palm Park Formation (Eocene), Caballo Mountains, New Mexico, 316p.
- Schoderbek, David A., 1991, Environments of deposition and patterns of cyclicity of Panther Seep Formation, San Andres Mountains, New Mexico, 319p.
- Imerito-Tetzlaff, Alicia Angelica, 1995, Diagenesis in Quaternary carbonates offshore Al Jubayl, Saudi Arabia, 250p.
- Guidry, Sean, 1996, Diagenesis beneath paleosurfaces of exposure: three examples from the Paleozoic, 236p.
- Jaynes, Russell Scott, 1997, A petrologic analyses of caliche within the central Texas region, 286p.
- Zhang, Jilin, 1997, Isotopic and trace elemental analyses, and description of authigenic quartz for Pleistocene dolomite, Al Jubayl, Saudi Arabia, 247p.
- Cirilo, Les, 2002, Transgressive estuarine fill of an incised paleovalley, Upper Mississippian Chesterian Series, Shuck Field area, Seward County, Kansas, 194 p.
- Wu, Zhoudan, 2006, The cementation of tepee structures in the Permian Reef Complex, western Texas and New Mexico: fluid source, 102 p.
- Casillas, Megan Brock, 2009, Diagenesis of shell along central Padre Island, south Texas Gulf Coast, 129 p.
- Owens, Joaquin, 2011, Depositional variability along-strike in a terrigenous coastal system (Eagle Sandstone, Elk Basin, Wyoming and Montana), 196 p.
- Krimmel, Jeremy, 2012, The role of sulphate-reducing bacteria and unconsolidated organic matter in the formation of primary dolomite.

Barth, Jennifer, 2012, Crystal Geysers, Utah: Characterization of travertine from a cold water, carbon-dioxide driven geysers.

John LeBas, 2012, Petrography of the Pennsylvanian Hartshorne Sandstone, and associated "Turtle Rocks", Arkansas.

Bazaz, Zozan A., 2012, Petrography, geochemistry, and stratigraphy of the Paleocene-Eocene carbonate and evaporite deposits in the south of Iraq, 175p.

Cook, Megan A., 2013, Lateral and temporal facies variations in a Quaternary travertine deposit, Belen, New Mexico. 149p.

Nicole Crocker, 2014, The diagenesis of shell middens along the Gulf coasts of Texas and Florida.

Trantham, Christopher W., Facies and morphology of Pleistocene mounds in Lyman Lake, Arizona.

Thomas Gabel, 2015, Investigation of Mg fractionation within bacterially induced calcite and aragonite crystals.

Completed Plan II & Accelerated Research Supervised:

Whaley, Kenneth R., 1981, Petrology of the Bliss Sandstone, New Mexico.

Lock, John, 2009, Bacterially induced mineralization of calcite in a modern cyanobacterial substrate: A case study from Follets Island, Texas.

Completed Dissertation Supervised:

Rush, Patrick F., 1989, Diagenesis of the Lower Devonian, Helderberg Group in New York State and the chemical alteration of petrographically pristine brachiopods, 321p.

Buczynski, Chris, 1990, Characteristics of bacterially induced precipitates of calcium carbonate from the laboratory, and from cyanobacterial mats of Baffin Bay, Texas, and Andros Island, Bahamas, 157p.

Kim, Kyou, 1998, Integrated analyses and interpretations of the early diagenetic records imprinted on the uplifted Pleistocene coral reef limestones, Bonaire, Netherland Antilles, 466p.

Yongqiang Wu, 2001, Petrography, geochemistry, and diagenesis of Mississippian carbonate mud-mounds inter-mound limestones from the Alamogordo Member of the Lake Valley Formation, Sacramento Mountains, New Mexico, 158p.

Guidry, Sean A., 2001, Depositional and diagenetic facies in siliceous hot springs: Examples from Yellowstone National Park, Wyoming, U.S.A., 216p.

Long Ma, 2006, Origin of dolomites within the Eocene Green River Formation.

Strasen, James L., 2008, Depositional environments of the Middle Jurassic Lower Sundance Formation, Bighorn Basin, Wyoming, 289p.

Zhou, Jie, 2008, The characteristics and genesis of caliches in Texas and the controlling factors, 353p.

Bose, Sushanta, 2008, Microbially induced sedimentary structures (MISS) in siliciclastic sediments, 168p.

Guo, Xuan, 2010, Origin of tufa mounds in Searles Lake, California, 196 p.

Famubode, Oyebode A., 2014, Paleosol evolution in a fluvial sequence stratigraphic framework, Cretaceous Ferron Notom Delta, south central Utah, U.S.A., 136p.

Chen, Xinyang, 2016, Silica isotope fractionation within authigenic quartz crystals in carbonate strata.

Visiting Scholars and Fulbright's:

Prof. Shen Mingdao, Spring 1988, Dept. Petroleum Geology, Southwest Petroleum Institute, Nanchong, Sichuan Province, People's Republic of China.

Prof. Hong Qingyu, Spring 1988, Dept. Postgraduate Education, Southwest Petroleum Institute, Nanchong, Sichuan Province, People's Republic of China.

Dr. Brahim Akdim, FES University, Morocco, had a Fulbright Scholar Award to work with me Spring 1993.

Mr. Zhaogua Shen, Spring 1996, Associate Professor, southwest Petroleum Institute, Nanchong, Sichuan Province, China

Mr. Jian-ming Li, Fall-Winter 1999-2000, Associate professor, Vice-Dean, Dept Geology, Jiangnan Petroleum University, Jingzhou City, Hubei, P.R. China

Member of Graduate Committees:

Geology Department - served on 20 or more theses and plan II committees.

Outside of Geology Department - served on 5 dissertation committees in Biology Department. Ph.D.

comm. for Franz Hiebert, 1996, Dept. Geological Sciences, Univ. Texas.

Department Service:

Graduate Advisor (1/75-8/77, 6/90-8/99, 3/02-12/2011) Library Liaison (9/80-1984)

Personnel comm. (87-88, 91-92, 92-93 (alternate), 93-94, 2000-2005, 2010-2013)

Materiel comm. (89-90, 90-91, 97-98, 05-08)

Scholarship Comm. Chair (8/96-present)

Participation in Geology Foundation Short Course numerous times.

College Service:

Graduate Committee (9/75-6/77, 9/90-8/99, 02-07, 10-11).

Policy Committee (1982-1984, 8/96-2000, 2005-2008 (chair 07-08)). Academic Honesty Committee (1994-96).

Faculty Development Leave Comm. (97-00)

University Service:

Writing Proficiency Examiner (1982-1983, 1994-95). AD HOC Research Awards Committee (1987-1988).

University Promotion and Tenure Committee (1988-1990). University Hearing Board (1999-2002).

Graduate and Professional Student Council (2002-2010) Research Council (2009-2010)

Service to Community:

Geology Show & Tell @ Roberts Elementary School (Sp. 89) Science Fair Judge @ Pershing Middle School (Sp. 90) Judge @ Science Engineering Fair of Houston (93 to 07)

Service to Profession:

Co-convenor: SEPM Field Conference 2010, Microbial mats in siliciclastic sediments from the Archean to Today, Denver, May, 2010. (approx. 50 registrants, half from overseas).
Reviewer for carbonate terminology for AGI's 5th edition, in press, of the Glossary of Geology
Editorial Board of Sedimentary Geology (1998-2011).
Associate Editor, Journal of Sedimentary Petrology (1986-1989; 1999-present).

International representative on a 3 member review panel for the University of Alberta to review their Earth & Atmospheric Sciences Dept (32 faculty members, recently combined Geology & Geography depts), 1998.

Member S.E.P.M. (Society Economic Paleontologist & Mineralogists) Ad Hoc Comm. on Involvement of Younger Members in Society Affairs (1989-1994).
Technical Program Chairman, S.E.P.M. for the Amer. Assoc. Petrol. Geol.-Soc. Econ. Paleon. Mineral. National Meetings, Houston, Texas, 1988.
Member of S.E.P.M. Convention Policy Committee (1986-1989).
Vice-chairman & Chairman of S.E.P.M. Carbonate Research Group (1984-1986). Regional representative of Gulf Coast Section of S.E.P.M. (1984).
Department Liaison to S.E.P.M. (1992-present)
Campus representative for the Geological Society of America (2000-present)

Chaired and co-chaired sessions for national and regional meetings of Geological Society of America, S.E.P.M., A.A.P.G.
Organized and chaired symposium on "Chalk deposition and diagenesis", U. H., 1978.

Reviewer of articles for Journal Sedimentary Research (nee Petrology), Sedimentology, Sedimentary Geology, Bulletin of the Geological Society of America, Geology, Palaios, Geochimica Cosmochemica Acta, Canadian Journal Earth Science, Geomicrobiology, Ocean Drilling Program. Applied Geochemistry, Chemical Geology, Carbonates and Evaporites, Earth Science Reviews, Marine Geology, Precambrian Research, Earth & Planetary letters, Palaeogeography, Palaeoclimatology and Palaeoecology.

Reviewer of proposals for N.S.F., Dept. of Energy, Amer. Chem. Soc.-Petrol. Res. Fund., NASA, NERC (British NSF), NSERC (Canadian NSF), FWF (Austrian NSF).
Member of Society of Sedimentary Geology (SEPM) Member of the Gulf Coast Section of SEPM
Member of International Association of Sedimentologists Fellow of the Geological Society of America
Service to Industry:

Consultant to ExxonMobil, Hess, Anadarko, and BHP-Billiton (2009-present) with regard to sub- salt deposits offshore Brazil
Consultant to various companies over the years.
Taught short courses for Schlumberger (1995), Reed Drilling Co (1995) Reviewed manuscripts of textbooks for various companies.
Courses Taught at University of Houston:

Undergraduate level:

Historical Geology
Environmental Geology
Introduction to Petrography
Stratigraphy
Introduction to Depositional Models
Sedimentology
Field Camp*
Sedimentary Petrogenesis

Graduate level:

Petrography of Carbonates
Petrography of Sandstones

Depositional Models
Carbonate Sedimentology
Carbonate Diagenesis
Advanced Sedimentology
Nearshore Processes and Problems Sedimentary Seminar

*Also taught for Univ. Texas @ Austin, summer of 1984.