



Research Day Committee, University of Houston - 2012 to present  
Graduate Student Committee, University of Houston - 2013 to present

**FACULTY SENATE, University of Houston: 2016 – to present**

**Budget and Facilities Committee – 2016**

**Faculty Affairs Committee - 2017**

**AWARDS**

Society for Sedimentary Geology (SEPM) Presidents Choice Student Award Poster, 2003,  
Evidence of compartmentalization from a coupled study on brine chemistry and  
stratigraphy in and around the South Liberty Salt Dome, Texas. T. Banga, R. Capuano  
and D. VanNieuwenhuise. (I was T Banga's major advisor)

Houston Geological Society - Best Student Poster, 2002-2003, Houston Geological Society, Structural  
and Stratigraphic Constraints on the Chemistry and Sources of fluids around South Liberty Salt  
Dome. T. Banga, R. Capuano, and D. VanNieuwenhuise. (I was T Banga's major advisor)

Houston Geological Society - Best Student Poster, 2001 – 2002, Houston Geological Society, Brine  
Source Migration and Cap-Rock Dissolution in the Vicinity of the South Liberty Salt Dome,  
Texas Gulf Coast. T. Banga and R. Capuano. (I was T. Banga's major advisor)

**EDITORIAL REVIEW BOARD:** Ground Water Monitoring and Remediation, 1998 – 2005

**ADVISORY BOARD**

University of Arizona, Department of Geosciences, 1999 - 2017

Environmental Institute of Houston, 1997 – 2003

**SYMPOSIUM ORGANIZER AND CHAIR:** "Hydrogeologic Controls on Contaminant Transport",  
Geological Society of America South-Central Section meeting, 1992.

**NATIONAL PANEL:**

U.S. DOE, Office of Basic Research, 1993. Invited member of the review panel for Geochemical  
Transport Research of the Geosciences Research Program.

U.S. DOE and Los Alamos National Laboratory Workshop on Fundamental Geochemistry needs for  
Nuclear Waste Isolation, 1984. Invited member of the Modeling Committee, Report CONF-  
8406134—DE86 005835 Issued Sept 1985, <http://www.osti.gov/bridge/servlets/purl/6283889-2voBtJ/6283889.PDF>

**Member Center for Innovative Grouting Materials and Technology**, University of Houston 1994-2014

**Penrose Conference invited speaker:** Penrose Conference on Nuclear Waste Analogies, 1984,  
"Hydrothermal Systems - Analogies to Nuclear Waste Repositories"

**American Chemical Society - Gordon Research Conference invited speaker:** 1993, "Geochemical  
evidence of fluid flow in geopressured sediments"

**Professional Societies-committees-** The Geochemical Society - Auditing Committee 1996-1997

**Fellowships**

Sohio Petroleum Company, Research Fellowship, 1984-1986

Wyoming Minerals Corporation of Westinghouse, Research Fellowship, 1976-1977

**Teaching Activities:** Developed undergraduate and graduate courses in Hydrogeology, Geochemistry,  
Hydrochemistry, Advanced Hydrogeology, Water in the Environment, Geochemistry of Water-  
Rock Systems, Modeling Fluid-Mineral Reactions, Geochemical Reaction Modeling, Simulation  
of Ground-Water Flow and Transport, and Physical Geology

**Book Reviewer**

Applied Hydrogeology, 3rd ed., by C.W. Fetter, Merril Publishers

Memoir on Pressure Compartments: American Association of Petroleum Geologists

Hydrogeology Laboratory Manual, by Keenan Lee, Macmillan Publishing Company

**Other Recognition**

**Annual Research Highlights and Trends in the Study of Clays**, Geotimes (February, 1993, pg 33)  
featured review of my article Capuano, 1992 (Geochim. Cosmochim.).

**Clays and Stuff** (December 1993, pg 2) Summary of my article Capuano, 1993 (Am. Assoc. Pet. Geol.).

**New Waves** (1995, v8, no8 p2) article about Mills and Capuano (1995, Proc. 24th Water for Texas Conf.) abstracted in *New Waves* <http://twri.tamu.edu/newsletters/NewWaves/nw-v8n2.pdf>

**New Waves** (1990, v3, no3, p3) article about Capuano and Kreitler (1989, US-EPA CR8144056010) summarized in *New Waves* <http://twri.tamu.edu/newsletters/NewWaves/nw-v3n3.pdf>

**Waste Treatment Technology News** (1990, v5, n6, p1) feature article on my research in the area of waste degradation.

### **SCHOLARSHIPS, FELLOWSHIPS**

Sohio Petroleum Company, Research Fellowship, 1984-1986  
Wyoming Minerals Corporation of Westinghouse, Research Fellowship, 1976-1977  
University of Arizona Graduate Tuition Scholarship, 1974-1975  
N. Y. State Regents Incentive Award, 1970-1974

### **DISSERTATIONS AND THESES SUPERVISED**

- Jan, Rezie Zaheer. 1994. *Hydrodynamic controls on contaminant transport in shallow low permeability sediments of the Beaumont formation*. Thesis (M.S.) University of Houston.
- Hinks, Alan William. 1995. *Spatial and temporal variations in the hydrogeology and hydrochemistry of a section of the Beaumont clay, Galveston county, Texas*. Thesis (M.S.) University of Houston.
- Zou, Ze-Yuan. 1995. *Infiltration of dye tracers and nutrients into the vadose zone of the upper Pleistocene Beaumont formation*. Thesis (M.S.) University of Houston.
- Mills, Steven D. 1996. *Ground-water recharge through clay-rich sediments at the University of Houston Coastal Center*. Thesis (M.S.) University of Houston.
- Ray, Jayanta. 1996. *Comparative study of the deuterium signatures of geopressed and nongeopressed clays from Brazoria county, Texas*. Thesis (M.S.) University of Houston.
- Bourgeois, Fay M. 1997. *Elemental and stable isotope study to determine the source of salt-water contamination in the Chicot aquifer of the Gulf Coast Aquifer System*. Thesis (M.S.) University of Houston.
- Gell, Christianne Michelle. 1999. *Evaluating fluid flow around the Danbury Salt Dome, Brazoria County, Texas: an elemental and stable isotope study*. Thesis (M.S.) University of Houston.
- Hyeong, Kiseong. 2000. *Evidence of fluid expulsion from the geopressed sediment of the U.S. Gulf Coast*. Thesis (Ph. D.) University of Houston.
- Banga, Tathagata. 2003. *Tracing salt dissolution, fluid sources and mixing in the vicinity of the South Liberty salt dome in the South-East Texas Gulf Coast*. Thesis (M.S.) University of Houston.
- Guo, Hao. 2004. *Geochemical investigation of the origin of Frio-reservoired oils from Southeast Texas basin*. Thesis (M.S.) University of Houston.
- Banga, Tathagata (Tat). 2006. *Fluid-flow perturbations in the vicinity of the South Liberty salt dome, South East Texas Gulf Coast*. Thesis (Ph. D.) University of Houston.
- Chakraborty, Arindam. 2007.  *$\delta^{13}\text{C}$  dating of the Chicot Aquifer water, Texas Gulf Coast, evaluation of a [small delta] $^{13}\text{C}$  correction for carbon sources other than from calcite reactions*. Thesis (M.S.) University of Houston.

- Lindsay, Steve, 2009, *Sources of Saline Water Contamination in the Chicot/Evangeline Aquifer of Brazoria, Fort Bend, and Wharton Counties, Using Multi-element Hydrochemical Analyses*. Thesis (M.S.) University of Houston, 214p.
- Francis, Luke, 2012, *Tracing the Source of Shallow-Water Contamination near a Leaky Fault System, Green River Utah*, Thesis (M.S.) University of Houston.
- Chroback, Marcus Alan, 2013, *Hydrocarbon potential of the antrim shale along the southern margin of the Michigan Basin*, Thesis (M.S.) (co-advisor with D. Van Nieuwenhuise) University of Houston.
- Surek, Melahat Asli, 2013, *Cluster analysis of the Balakhany VIII Reservoir Unit with spectral gamma ray logs Azeri-Chirag-Gunashli field, offshore Azerbaijan*, Thesis (MS) (co-advisor with D. Van Nieuwenhuise) University of Houston.
- McConnell, Allison, 2013, *Geochemical investigation of the origin of hydrocarbon occurrences in up-dip Wilcox Group reservoirs at Raccoon Bend field, southeast Texas Gulf Coast basin*, Thesis (M.S.)– University of Houston.
- Liu, Yu, 2014, *Source and maturation of hydrocarbons in the Frio Formation of the Humble Field, Southeast Texas Gulf Coast basin*, Thesis (M.S.) University of Houston.
- Zhou, Qishan, 2015, *Source of hydrocarbons in the Blue Ridge Oil Field, Fort Bend County, southeast Texas Gulf Coast*, Thesis (M.S.) University of Houston.
- Bradshaw, Christian, 2017, *Southeast Texas oil to source-rock correlation inside the Houston Embayment, Texas Gulf Coast*, Thesis (M.S.) University of Houston.

#### **PUBLICATIONS (\*student research for which I was the major advisor)**

- Banga\*, T, Capuano, R.M. and Bissada, K.K., 2011, Petroleum generation in the southeast Texas basin: Implications for hydrocarbon occurrence at the South Liberty salt dome. *American Association of Petroleum Geologists Bulletin*, v95, p1257-1291.
- Hyeong\*, K., and Capuano, R.M., 2004, Hydrogen isotope fractionation factor for mixed layer illite/smectite 60° to 150°C, new data from the northeast Texas Gulf Coast. *Geochimica Cosmochimica Acta*, v68, p1529-1543. [doi:10.1016/j.gca.2003.10.002](https://doi.org/10.1016/j.gca.2003.10.002)
- Capuano, R.M., and Lindsay\*, S.V., 2004, Chicot/Evangeline aquifer of the Texas Gulf Coast, groundwater age and pathways for salt-water contamination, in Environmental Institute of Houston, 2004 Annual Report p 4-5, <http://prtl.uhcl.edu/portal/page/portal/EIH/archives/INCLUDES/ar2004.pdf>
- Capuano, R.M., and Lindsay\*, S.V., 2003, Chicot/Evangeline aquifer of the Texas Gulf Coast, groundwater age and pathways for salt-water contamination, in Environmental Institute of Houston, 2003 Annual Report p 22-24, <http://www.eih.uh.edu/publications/03annrep/capuano.htm>.
- Banga\*, T., Capuano, R.M., van Nieuwenhuise, D.S., 2002, Fluid flow, stratigraphy and structure in the vicinity of the South Liberty Salt Dome, Texas, *Gulf Coast Association of Geological Society Transactions*, v52, p25-36.
- Hyeong\*, K. and Capuano, R.M., 2001, Ca/Mg of brines in Miocene/Oligocene clastic sediments of the Texas Gulf Coast: Buffering by calcite/disordered dolomite equilibria. *Geochim et Cosmochim Acta*, v.65, 3065-3080. [doi:10.1016/S0016-7037\(01\)00659-7](https://doi.org/10.1016/S0016-7037(01)00659-7)
- Hyeong\*, K. and Capuano, R.M., 2000, The effect of organic matter on the δD of clay minerals, *Geochimica Cosmochimica Acta*, v. 64, p. 3829-3837. [doi:10.1016/S0016-7037\(00\)00438-5](https://doi.org/10.1016/S0016-7037(00)00438-5)

- Capuano, R.M. and Jan\*, R.Z., 1997, In-situ hydraulic conductivity of clay and silty-clay fluvial deltaic sediments: discussion and reply, *Ground Water*, v35, no1, p2-3.
- Capuano, R.M., and Jan\*, R.Z., 1996, In-situ hydraulic conductivity of clay and silty-clay fluvial-deltaic sediments: *Ground Water*, v34, no3, p545-551.
- Capuano, R.M., Siringan, M.A., Jan\*, R.Z., and Jurtschuk, P. Jr., 1996, Enhanced activity of oligotrophic endogenous bacteria in clay-rich sediments by nutrient injection: *Geomicrobiology Journal*, v13, p165-179.
- Capuano, R.M., and Johnson, M., 1996, Geochemical reactions during biodegradation/vapor-extraction remediation of petroleum contamination in the vadose zone: *Ground Water*, v34, p31-40.
- Hinks\*, A.W., and Capuano, R.M., 1995, Spatial and temporal variations in the hydrogeologic properties of the Upper Beaumont Clay: In. R. Jensen ed., *Proceedings of the 24th Water for Texas Conference*: Texas Water Development Board, pg 147-156.
- Mills\*, S.D., and Capuano, R.M., 1995, Infiltration of rain water through clay-rich soil of the Beaumont Formation, Galveston County, Texas: In. R. Jensen ed., *Proceedings of the 24th Water for Texas Conference*: Texas Water Development Board, pg 161-170.
- Capuano, R.M., 1994, Evidence of fluid flow in microfractures in geopressed shales: *Reply: American Association of Petroleum Geologists Bulletin*, v78, 1641-1646.
- Capuano, R.M., 1993, Evidence of fluid flow in microfractures in geopressed shales: *American Association of Petroleum Geologists Bulletin*, v77, p1303-1314.
- Capuano, R.M., 1992, The temperature dependence of hydrogen isotope fractionation between clay minerals and water, evidence from a geopressed system: *Geochimica et Cosmochimica Acta*, v56, p2547-2554. [doi:10.1016/0016-7037\(92\)90208-Z](https://doi.org/10.1016/0016-7037(92)90208-Z)
- Capuano, R.M., 1990, Hydrochemical constraints on fluid-mineral equilibria during compaction diagenesis of kerogen-rich geopressed sediments: *Geochimica et Cosmochimica Acta*, v54, p1283-1299. [doi:10.1016/0016-7037\(90\)90153-C](https://doi.org/10.1016/0016-7037(90)90153-C)
- Kreitler, C.W., Capuano, R.M., Akhter, M.S., Hamlin, H.S., Erwin, M.E., and Walter, T.G., 1990, Consolidation of Geologic Studies of Geopressed-Geothermal Resources in Texas: *U.S. Department of Energy, Advanced Technology Division, DOE-FC07-85NV10412*, 185p.
- Capuano, R.M., 1990, Subsurface degradation of wastes disposed. *Bulletin Houston Geological Society* v32, p 14-15.
- Capuano, R.M., and Kreitler, C.W., 1989, Chemical controls on subsurface degradation of wastes disposed of by deep well injection: *Proceedings of the International Symposium on Class I & II Injection Well Technology*, May 8-11, 1989; Underground Injection Practices Council, Oklahoma City, Oklahoma, p345-355.
- Capuano, R.M., and Kreitler, C.W., 1989, Deep well injection: chemical wastes disposed and their subsurface reactions: *U.S. Environmental Protection Agency, Office of Drinking Water, CR-8144056-01-0*, 169p.
- Runnels, D.D., Kerrisk, J.F., Wangen, L., Bowers, T., Capuano, R., Isherwood, D., Jenne, E.A., Lerman, A., Pearson, F.J., Plummer, L.N., Travis, B.J., Valocchi, A.J. and Wolery, T.J., 1985, Modeling: In. B.R. Erdal, ed., Workshop on Fundamental Geochemistry Needs for Nuclear Waste Isolation, Los Alamos, NM, Jun 20-21, 1984, *U.S. Department of Energy and U.S. Nuclear Regulatory Commission*, CONF-8406134, DE86005835 <https://www.osti.gov/scitech/servlets/purl/6283889>
- Wright, P.M., Capuano, R.M., Adams, M., and Moore, J.N., 1984, Uses of geochemistry with injection-backflow testing in geothermal reservoir studies: *Geothermal Resources Council, Trans.*, v8, p349-354.
- Sibbett, B.S., and Capuano, R.M., 1984, Potential for a low-temperature geothermal resource near Mackay Idaho: *U.S. Department of Energy, DOE-ID-12079-120, UURI-ESL 137*, 12p.
- Adams, M., Capuano, R.G., Wright, M., Clemo, T.M., Hull, L.C., 1984, Hydrothermal Injection Research Program, Annual Progress Report, FY 1984, *U.S. Department of Energy, DOE-ID-10123, Contract AC07-76ID01570, NTIS:DE85004905*, 110p.
- Capuano, R.M., Adams, M.C., and Wright, P.M., 1983, Tracer recovery and mixing from two geothermal

- injection-backflow studies: *Ninth Workshop on Geothermal Reservoir Engineering*, Stanford, p299-304.
- Christensen, O.D., Capuano, R.A., and Moore, J.N., 1983, Trace element zoning in the Roosevelt Hot Springs Thermal Area, Utah: *Journal Volcanology and Geothermal Research*, v16, p99-129. [doi:10.1016/0377-0273\(83\)90086-0](https://doi.org/10.1016/0377-0273(83)90086-0)
- Struhsacker, E.M., Smith, C., and Capuano, R.M., 1983, An evaluation of exploration methods for low-temperature geothermal systems in the Artesian City area, Twin Falls and Cassia Counties, Idaho: *Geological Society of America Bulletin*, v94, p58-79.
- Thussu, J.L., Moore, J.N., and Capuano, R.M., 1983, Preliminary geothermal assessment of the Tattapani thermal area, Madhya Pradesh, India: *Geothermal Resources Council, Trans.*, v7, 6p.
- Apps, J.A., and Capuano, R.M., 1983, Solid-liquid equilibria, in P.M. Wright, ed., *In Situ Leaching and Solution Mining--State of the Art and Recommended Research: University of Utah Research Institute*, ESL-85031-TR.
- Blackett, R.E., Capuano, R.M., Kolesar, P.T., Sill, W.R., Allman, D.W., Downs, W.F., Hull, L.C., Koslow, K.N., Large, R.M., McAtee, R.E., Miller, J.D., Russell, B.F., and Skiba, P.A., 1983, Hydrothermal Injection Research Program Annual Progress Report FY-1983: *U.S. Department of Energy*, DOE-ID-10117, Cat. UC-66a <http://www.osti.gov/bridge/servlets/purl/5377802-1kjQQ8/5377802.PDF>
- Capuano, R.M., and Cole, D. R., 1982, Fluid-mineral equilibria in a hydrothermal system, Roosevelt Hot Springs, Utah: *Geochimica et Cosmochimica Acta*, v46, p1353-1364. [doi:10.1016/0016-7037\(82\)90271-X](https://doi.org/10.1016/0016-7037(82)90271-X)
- Adams, M.C., and Capuano, R.M., 1982, Evaluation of the geothermal reservoir associated with Auburn and Johnson Hot Springs, Upper Star Valley, Wyoming: *Geothermal Resources Council, Trans.*, v6, p73-76.
- Downs, W.F., McAtee, R.E., Capuano, R.M., and Sill, W.R., 1982, Hydrothermal injection experiments at the Raft River KGRA, Idaho: *Eight Workshop on Geothermal Reservoir Engineering*, Stanford, 4p. also EGG-M-27982- CONF-821214-3
- Capuano, R.M., 1981, Water chemistry as an aid in reconnaissance exploration for a low-temperature geothermal system, Artesian City Area, Idaho: *Geothermal Resources Council, Trans.*, v5, p59-62.
- Buma, G., Johnson, P., Bienek, G., Watson, G., Noyes, H., and Capuano, R., 1981, Analysis of Ground Water Criteria and Recent Restoration Attempts after In-Situ Uranium Leaching: *U. S. Bureau of Mines*, Open-File Report 90-82.
- Christensen, O.D., Moore, J.N., and Capuano, R.M., 1980, Trace element geochemical zoning in the Roosevelt Hot Springs thermal area, Utah: *Geothermal Resources Council, Trans.*, v4, p149-152.
- Christensen, O.D., Kroneman, R.L., and Capuano, R.M., 1980, Multielement analysis of Geologic Materials by Inductively Coupled Plasma-Atomic Emission Spectroscopy: *U.S. Department of Energy*, DOE-ID-12079-2, UURI-ESL32, 33p.
- Glenn, W.E., Chapman, D.S., Foley, D., Capuano, R.M., Sibbett, B.S., Cole, D., and Ward, S.H., 1980, Geothermal Exploration at Hill Air force Base, Ogden, Utah: *U.S. Department of Energy*, DOE-ET-28392-42, UURI-ESL34, 77p.
- Bamford, R.W., Christensen, O.D., and Capuano, R.M., 1980, Multielement Geochemistry of Solid Materials in Geothermal Systems and Its Application, Part I: The Hot Water System at Roosevelt Hot Springs KGRA Utah: *U.S. Department of Energy*, DOE-ET-27002-7, UURI-ESL30, 168p.
- Capuano, R.M., and Bamford, R. W., 1978, Initial Investigation of Soil Mercury Geochemistry as an Aid to Drill Site Selection in Geothermal Systems: *U.S. Department of Energy*, DOE-ET-28390220, IDO-78-1701.b.3.3, UURI-ESL13, 32p.

## Abstracts

Banga, T, Capuano, R.M., Bissada, A, and VanNieuwenhuise, D., 2006, Source, maturity and

- compartmentalization of oil and brines in the South Liberty Salt Dome, Texas Gulf Coast,, American Association of Petroleum Geologists National Meeting, Technical Program Abstract no A103764.
- Banga, T, Capuano, R.M., and Bissada, A, 2004, Mixing of meteoric water and deep brine, and fluid-isolation around salt domes, SE Texas, USA, *Geochimica et Cosmochimica ACTA* v. 68 (11): A235 Suppl. S.
- Banga, T, Capuano, R.M., and Bissada, A, 2004, Mixing of meteoric water and deep brine, and fluid-isolation around salt domes, SE Texsa, USA, *Goldschmidt Geochemistry Conference Proceedings* v. 14, abstract no 1375.
- Banga, T., Capuano, R.M. and VanNieuwenhuise, D., 2003, Evidence of reservoir compartmentalization from a coupled study on brine chemistry and stratigraphy in and around the South Liberty Salt Dome, Texas. American Association of Petroleum Geologists National Meeting, Technical Program Abstract v. 12 p. A9, abstract no 78852. [This was an invited presentation SEPM Presidents Award Presentation]]
- Hyeong, K. and Capuano, R.M., 2002, Hydrogen isotope fractionation factor for mixed layer illite/montmorillonite 0° to 150°C, new data from the northeast Texas Gulf Coast, *Geological Society of Korea Annual Meeting* v. 57 p.32
- Hyeong, K. and Capuano, R.M., 2002, Origin of low salinity pore water in the seal overlying the geopressed regime, northeast Texas Gulf Coast: 2002 American Association of Petroleum Geologists Annual Convention Abstracts, v. 11, p. A83.
- Banga, T. and Capuano, R.M., 2001, Meteoric water influx, gypsum and halite dissolution, and fluid mixing on the flanks of the South Liberty Salt Dome, Texas Gulf Coast: *Eos. Trans. AGU*, v. 82, no. 47, Fall Meeting Abstracts, V31C-02, p. F1335.
- Banga, R. and Capuano, R.M., 2000, The chemistry and source of fluids in the vicinity of capped salt domes of the eastern Texas Gulf Coast: AAPG/SEG Student Expo, 2000, Corporate Sponsor Combined Abstract volume, p2.
- Hyeong, K. and Capuano, R.M., 1999, Ca/Mg ratios for calcite/dolomite equilibrium to 150°C derived from the composition of Gulf Coast brines: *Geological Society of America, Abstracts with Programs, Annual Meeting*, v. 31, no. 6, p A28.
- Hyeong, K. and Capuano, R.M., 1999, Evidence of the ineffectiveness of the H<sub>2</sub>O<sub>2</sub> organic matter removal method used for deuterium isotope analyses of clays: *Geological Society of America, Abstracts with Programs, Annual Meeting*, v. 31, no. 6, p. A344.
- Gell, C.M. and Capuano, R.M., 1998, Evaluating fluid flow around the Danbury Salt Dome, Brazoria County, Texas, *American Association of Petroleum Geologists Bulletin*, v. 82, p. 2162.
- Capuano\*, R.M., 1997, Permeameter tests of the silty clay from the fluvial-deltaic Beaumont Formation can underestimate hydraulic conductivity: *Bulletin, Houston Geological Society*, v. 39, no. 10, pg. 8.
- Capuano\*, R.M. and Johnson, M.A., 1997, Geochemical reactions during biodegradation/vapor extraction remediation of petroleum contamination in the vadose zone: 34<sup>th</sup> National AIPG (American Institute of Professional Geologists) Meeting, invited talk, October, abstract published on the web at <http://www.ela-iet.com/AIPG/program.html>.
- Capuano\*, R.M. and Hinks, A.W., 1996, Hydrochemical communication between clay and silty-clay layers in shallow fluvial-deltaic sediments: *Geological Society of America, Abstracts with Programs, Annual Meeting*, v. 28, no. 7, p A73.
- Bourgeois, F.M. and Capuano, R.M., 1996, Elemental and stable isotope study to determine the source(s) of salt contamination in the Chicot Aquifer: *Geological Society of America, Abstracts with Programs, South-Central Meeting*, v. 28, no7, p6.
- Capuano\*, R.M. and Ray, J., 1995, Deuterium in geopressed versus nongepressed sediments of the Texas Gulf Coast: *Geological Society of America, Abstracts with Program, Annual Meeting*, v27, no6, pA-253.
- Capuano, R.M., and Jan\*, R.Z., 1995, In-situ hydraulic conductivity of silty-clay fluvial-deltaic sediments of the Texas Gulf Coastal Plain: *Geological Society of America, Abstracts with Program, Annual Meeting*, v27, no6, pA-99.
- Bunge\*, G.C., and Capuano, R.M., 1995, Importance of crawfish burrows to infiltration in clay-rich

- sediments: Geological Society of America, Abstracts with Program, Annual Meeting, v27, no6, pA-99.
- Mills\*, S.D., and Capuano, R.M., 1995, Transpiration-induced chloride enrichment of pore water in shallow, variably-saturated, clay-rich sediments: Geological Society of America, Abstracts with Program, Annual Meeting, v27, no6, pA-41.
- Capuano\*, R.M., 1994, Geochemical evidence of fluid flow in geopressed basins: Geological Society of America Abstracts with Program, Annual Meeting, v26, no6, pA108.
- Capuano, R.M., Jan, R., Siringan, M.A., and Jurtshuk, P. Jr., 1994, Bioremediation in shallow clay-silt sediments induced by nutrient injection: Resulting geochemical and microbiological reactions: Waste Management, v14, issues 3-4, p344-345.
- Capuano\*, R.M., Jan, R., Siringan, M.A., and Jurtshuk, P. Jr., 1994, Bioremediation in shallow clay-silt sediments induced by nutrient injection: Resulting geochemical and microbiological reactions: Priorities in Pollution Prevention, Annual Gulf Coast Environmental Conference, Gulf Coast Hazardous Substance Research Center, Beaumont, Texas, p173.
- Siringan\*, M.A., Capuano, R., and Jurtshuk, P. Jr., 1994, Bacterial analyses of ground water from a shallow clayey aquifer before and after nutrient addition: Proceedings, 94th General meeting of the American Society for Microbiology, p325.
- Capuano\*, R.M., and Johnson, M., 1993, Geochemical evidence of vapor-extraction remediation of petroleum contamination in the vadose zone: Geological Society of America Abstracts with Program, Annual Meeting, v25, no6, pA151.
- Capuano, R.M., Jan\*, R., Siringan, M.A., Jurtshuk, P. Jr., 1993, Geochemical and microbiological reactions during bioremediation in shallow clay-silt sediments: Geological Society of America Abstracts with Program, Annual Meeting, v25, no6, pA319.
- Capuano\*, R.M., Jan, R., Siringan, A.M., Jurtshuk, P. Jr., DeVine, C., and Liehr, S., 1993, An Injection Study of Aquifer Bioremediation: Fifth Annual Symposium, Emerging Technologies: Metals, Oxidation and Separation, Gulf Coast Hazardous Substance Research Center, February 25-26, 1993, p383.
- Capuano, R.M., Jan, R., Siringan, A.M., Jurtshuk, P. Jr., DeVine, C., and Liehr, S., 1993, An Injection Study of Aquifer Bioremediation: Waste Management, v13, Issues 5-7, p517-518.
- Siringan\*, M.A., Jurtshuk, P. Jr., and Capuano, R.M., 1993, Microbiological monitoring of ground water samples from the injection (and surrounding) wells after the field addition of chemical nutrient into a coastal plain aquifer: Proceedings, 93rd General Meeting American Society for Microbiology, p417.
- Capuano\*, R.M., 1992, Mineralogical evidence of fluid flow in microfractures in geopressed shales: Geological Society of America Abstracts with Program, Annual Meeting, v24, no7, pA336.
- Alley-McReynolds\*, P.D., and Capuano, R.M., 1992, Mineralogical examination of shale in core from the geopressed Frio Formation, Brazoria, County, Texas: American Association of Petroleum Geologists Bulletin, v76, p1453.
- Alley-McReynolds\*, P.D., and Capuano, R.M., 1992, Mineralogical examination of shale in core from the geopressed Frio Formation, Brazoria, County, Texas: Gulf Coast Association of Geological Societies, Transactions, p783.
- Capuano\*, R.M., and Liehr, S.K., 1992, Field study of mineral precipitation associated with biodegradation: Ground Water: The problem and Some Solutions, Proceedings 4th Annual Symposium, The Gulf Coast Hazardous Substance Research Center, Lamar University, p216.
- De Vine\*, C.S., Liehr, S.K., and Capuano, R.M., 1992, Effects of microbial activity on water chemistry and mineral precipitation: Geological Society of America Abstracts with Program, v24, p9.
- Capuano\*, R.M., 1991, Evidence from geopressed systems for the temperature dependence of deuterium fractionation between clay minerals and water: Geological Society of America Abstracts with Program, Annual Meeting, v23, no5, pA150.
- Kreitler\*, C.W., and Capuano, R.M., 1990, Experimental determinations of hazardous degradation reactions during deep-well injection into saline formations of the Gulf Coast: Proceeding of the



- Second Annual Symposium Solidification/ Stabilization Mechanisms and Applications, February 15-16, 1990, Lamar University, Beaumont, Tx, p345-356.
- Capuano<sup>\*</sup>, R.M., 1990, Subsurface degradation of wastes disposed of by deep-well injection: Houston Geological Society Bulletin, v32, no6, p14-15.
- Capuano<sup>\*</sup>, R.M., 1989, Effects of complex waste solutions on hazardous-compound degradation and development of biological, chemical, and mineralogical zones in disposal aquifers: Geological Society of America Abstracts with Programs, Annual Meeting, v21, no7, pA188.
- Capuano<sup>\*</sup>, R.M., 1988, Hydrogeologic constraints on fluid-mineral equilibria in kerogen-rich geopressed sediments: Geological Society of America Abstracts with Program, Annual Meeting, v20, no7, pA259.
- Mullican<sup>\*</sup>, W.F. III, Kreitler, C.W., Scanlon, B.R., Fisher, R.S., and Capuano, R.M., 1988, Hydrologic investigations at a proposed low-level radioactive waste disposal site in Trans-Pecos Texas: Geological Society of America Abstracts with Program, Annual Meeting, v20, no7, pA172.
- Capuano<sup>\*</sup>, R.M., 1986, The effect of CO<sub>2</sub> solubility on cement formation in petroleum basins: Geological Society of America, Abstracts with Program, Annual Meeting, v18, no7, p557.
- Downs<sup>\*</sup>, W.F., McAtee, R.E., and Capuano, R.M., 1983, Tracer injection tests in a fracture dominated geothermal system: EOS, Transactions, American Geophysical Union Spring Meeting, v61, no18, p229.
- Mink<sup>\*</sup>, L.L., Chapman-Riggsbee, W., Capuano, R., and Hibberd, C., 1983, Utah State Prison geothermal resource: Rocky Mountain Groundwater Conference, Boise, Idaho.
- Moore<sup>\*</sup>, J.N., Capuano, R.M., and Christensen, O.D., 1983, Geochemical indicators of a high-temperature geothermal system: 9th International Geochemical Exploration Symposium, 1982, Saskatoon, Canada, Journal of Geochemical Exploration, v19(1-3), p347-348.  
[doi:10.1016/0375-6742\(83\)90029-8](https://doi.org/10.1016/0375-6742(83)90029-8)
- Capuano, R.M., McAtee, R.E., Downs, W.F., 1983, The application of natural and exotic chemical tracers to geothermal injection studies, Raft River Thermal Area, Idaho, 12<sup>th</sup> Annual Rocky Mountain Groundwater Conference, April 11-13, Boise, ID, Idaho Association of Professional Geologists.
- Capuano<sup>\*</sup>, R.M., 1982, Depositional environments of trace elements in soils over an active hydrothermal system, Roosevelt Hot Springs, Utah: Geological Society of America, Abstracts with Program, Annual Meeting, v14, no7, p459.
- Capuano<sup>\*</sup>, R.M., 1982, Numerical modeling of the chemical processes of solution mining: American Chemical Society Meeting, Symposium on Geochemistry, Abstract no106, p49.
- Cole<sup>\*</sup>, D.R., Apps, J., Capuano, R.M., Kusik, C.L, Langmuir, D., and Wadsworth, M., 1982, An overview of the chemical aspects of mineral-solution interactions in leach systems: 183rd American Chemical Society Meeting, Geochemistry GEOC 87.
- Capuano<sup>\*</sup>, R.M., and Cole, D.R., 1981, Fluid-mineral equilibria in a hydrothermal system, Roosevelt Hot Springs, Utah: Geological Society of America, Abstracts with Program, v13, no7, p 422.
- Capuano<sup>\*</sup>, R.M., and Moore, J.N., 1980, Hg and As geochemistry as a technique for mapping permeable structures over a hot-water geothermal system: Geological Society of America, Abstracts with Program, v12, no5, p269.
- Glenn<sup>\*</sup>, W.E., Chapman, D.S., Foley, D., Capuano, R.M., Sibbett, B.S., Cole, D., and Ward, S.H., 1980, Geothermal exploration at Hill Air Force Base, Ogden, Utah: Geological Society of America, Abstracts with Program, v12, no5, p274.
- Capuano<sup>\*</sup>, R.M., 1977, Preliminary analysis of the formation of uranium roll deposits as a result of reactions between circulating fluids and an arkose: Geological Society of America, Abstracts with Program, Annual Meeting, v9, no7, p920.