

## PUBLICATIONS

PUBLICATIONS: Dr. Sharp has published over 300 journal articles and abstracts, over 125 monographs/book chapters, and over 40 book reviews. He has given many invited research presentations, locally, nationally, and internationally.

**Journal articles** (\* denotes invited presentations):

Sharp, J.M., Jr., 1974, Energy transport in compacting porous media: Geol. Soc. America, Abs. with Programs (North-Central Sec.), v. 6, no. 6, p. 544.

Sharp, J.M., Jr., and Wood, D.S., 1974, Pore-fluid pressure release, fluidization, and sediment expulsion as an explanation for many early diagenetic features of layered sedimentary rocks: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 6, no. 7, p. 950.

Sharp, J.M., Jr., 1974, Anomalous pink till: Trans., Ill. Acad. Sci., v. 67, no. 3, p. 303-311.

Sharp, J.M., Jr., 1975, A graphical procedure for classifying aquifer management strategy: Water Resources Bull., v. 11, no. 5, p. 1040-1045.

Sharp, J.M., Jr., and Domenico, P.A., 1976, Energy transport in thick sequences of compacting sediments: Bull., Geol. Soc. America, v. 87, no. 3, p. 390-400.

Sharp, J.M., Jr., 1976, Application of Missouri River flood-plain hydrogeology in land use planning: Jour. Soil Water Conservation, v. 31, no. 2, p. 73-75.

Sharp, J.M., Jr., 1976, Momentum and energy and energy balance equations for compacting sediments: Jour. Internat. Assoc. Mathematical Geol., v. 8, no. 3, p. 305-322.

Sharp, J.M., Jr., and Grannemann, N.G., 1976, Hydrogeology of the Missouri River flood plain: Glasgow and Lisbon bends: Geol. Soc. America, Abs. with Programs (North-Central Sec.), v. 8, no. 4, p. 443.

Sharp, J.M., Jr., 1976, Ground-water sapping by freeze-and-thaw: Zeitschrift fuer Geomorphologie, v. 20, no. 4, p. 484-487.

Sharp, J.M., Jr., 1977, Hydrology: Geotimes, v. 22, no. 1, p. 25. \*

Sharp, J.M., Jr., 1977, Limitations of bank-storage model assumptions: Jour. Hydrology, v. 35, no. 1/2, p. 31-47.

Sharp, J.M., Jr., and Grannemann, N.G., 1977, Major river valley floodplain hydrogeology: Geol. Soc. America, Abs. with Programs (North-Central Sec.), v. 9, no. 5, p. 650-651.

Sharp, J.M., Jr., 1978, Hydrology: Geotimes, v. 23, no. 1, p. 30-31. \*

Sharp, J.M., Jr., Burmester, R.F., and Malvik, O., 1978, Geophysical exploration for buried valley aquifers in the dissected till plains: Geol. Soc. America, Abs. with Programs (North-Central Sec.), v. 10, no. 6, p. 284.

Sharp, J.M., Jr., 1978, Energy and momentum transport model of the Ouachita Basin and its possible impact on the formation of economic mineral deposits: Econ. Geology, v. 73, no. 6, p. 1057-1068.

**Journal articles (continued):**

- Sharp, J.M., Jr., 1979, Hydrology: Geotimes, v. 24, no. 1, p. 31-32. \*
- Grannemann, N.G., and Sharp, J.M., Jr., 1979, Alluvial hydrogeology of the lower Missouri River Valley: Jour. Hydrology, v. 40, no. 1/2, p. 85-99.
- Foreman, T.L., and Sharp, J.M., Jr., 1979, Hydraulic properties of the Missouri River alluvial aquifer: Geol. Soc. America, Abs. with Programs (North-Central Sec.), v. 11, no. 5, p. 230.
- Sharp, J.M., Jr., 1979, Hydrogeologic properties and response characteristics of the lower Missouri River alluvial aquifer: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 11, no. 7, p. 515.
- Malvik, O., Burmester, R.F., and Sharp, J.M., Jr., 1979, Applicability of gravity and seismic methods for delineating northwest Missouri's buried river valleys: Mo. Acad. Sci. Trans., v. 13, p. 133-146.
- Hall, M.D., Sharp, J.M., Jr., and Rinehart, E.J., 1980, Delineation of northwest Missouri's buried river valley aquifers by gravity geophysics: Geol. Soc. America, Abs. with Programs (North-Central Sec.), v. 12, no. 5, p. 228.
- Faltesek, J.D., and Sharp, J.M., Jr., 1981, The water resources potential of the lower Missouri River: Geol. Soc. America, Abs. with Programs (North-Central Sec.), v. 13, no. 6, p. 277.
- Foreman, T.L., and Sharp, J.M., Jr., 1981, Hydraulic properties of a major alluvial aquifer: an isotropic, inhomogeneous system: Jour. Hydrology, v. 3, p. 247-268.
- Keefe, C.M., and Sharp, J.M., Jr., 1981, Use of longitudinal conductance in estimating transmissivity of granular aquifers in northern Missouri: Geol. Soc. America, Abs. with Programs (North-Central Sec.), v. 13, no. 6, p. 283.
- Sharp, J.M., Jr., Klemm, D.D., and Wagner, J., 1982, Hydrogeologic controls on the hydrothermal systems and on the occurrences of antimony and mercury deposits in Tuscany, Italy: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 15, no. 7, p. 614.
- Kortenhof, M.H., and Sharp, J.M., Jr., 1982, Shale compaction, aquathermal pressuring, and natural hydraulic fracturing in a sedimentary basin: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 15, no. 7, p. 535.
- Sharp, J.M., Jr., 1983, Permeability controls on aquathermal pressuring: Am. Assoc. Petroleum Geologists Bull., v. 67, no. 11, p. 2057-2061.
- Sharp, J.M., Jr., 1983, Hydrogeologic systems and analyses and their possible application to ore deposition: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 16, no. 6, p. 684. \*
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- Blanchard, P.E., and Sharp, J.M., Jr., 1985, Possible free convection in thick Gulf Coast sandstone sequences: in Transactions, Southwest Section, Am. Assoc. Petroleum Geologists (McNulty, C. L., and McPherson, J. G., eds.), Fort Worth Geol. Soc., p. 6-12.
- Blanchard, P.E., and Sharp, J.M., Jr., 1985, Fluid flow and heat transport in compacting sedimentary basins: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 17, no. 1, p. 525.
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- Nielson, P.D., and Sharp, J.M., Jr., 1985, Tectonic controls on the hydrogeology of the Salt Basin, Trans-Pecos Texas: in Structure and Tectonics of Trans-Pecos Texas (Dickerson, P.W., and Muehlberger, W.R., eds.), West Texas Geol. Soc. Field Conf. 85-81, p. 231-235. \*
- Blanchard, P.E., and Sharp, J.M., Jr., 1986, Paleohydrology of the northwest Gulf of Mexico sedimentary basin: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 18, p. 543.
- LaFave, J.I., and Sharp, J.M., Jr., 1986, Groundwater flow delineation in the Toyah Basin of Trans-Pecos Texas: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 18, p. 664.
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- Clement, T.J., and Sharp, J.M., Jr., 1988, Hydrochemical facies in the bad-water zone of the Edwards aquifer, Central Texas: Proceedings of the Ground Water Geochemistry Conference, National Water Well Assoc., Dublin, Ohio, p. 127-149.
- Larkin, R. G., and Sharp, J.M., Jr., 1988, Estimation of regional ground-water flow direction in alluvial aquifers based on geomorphic and morphometric data: Geol. Soc. America Abs. with Programs (Ann. Mtg.), v. 20, p. A312.
- Pfeiffer, D.S., Sharp, J.M., Jr., Land, L.S., and McBride, E F., 1988, Thermal anomalies in the South Texas Gulf Coast: their relation to groundwater flow: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 20, p. A171.

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- Sharp, J.M., Jr., and Kyle, J.R., 1988, The role of ground-water processes in the formation of ore deposits: in Hydrogeology (Back, W., Rosenshein, J. S., and Seaber, P. R., eds.), The Geology of North America, Geol. Soc. America, Boulder, Colorado, v. 0-2, Ch. 47, p. 461-483. \*
- Brown, T. J., and Sharp, J.M., Jr., 1989, Modeling the effect of aerosol dispersal on groundwater systems: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 21, p. A96.
- Pfeiffer, D. S., and Sharp, J.M., Jr., 1989, Subsurface temperature distributions in South Texas: Trans., Gulf Coast Assoc. Geol. Societies, v. 39, p. 231-246.
- Sharp, J.M., Jr., and McBride, E.F., 1989, Sedimentary petrology: A guide to paleohydrogeologic analyses, example of sandstones from the northwest Gulf of Mexico: Jour. Hydrology, v. 108, p. 367-386.
- Sharp, J.M., Jr., 1989, Major advances in ground-water hydrology in the 1970s and 1980s: in Recent Advances in Ground-Water Hydrology ( Moore, J.E., Zaporozec, A.A., Csallany, C.S., and Varney, T.C., eds.), American Inst. Hydrology, p. vii-xii. \*
- Sharp, J.M., Jr., 1989, U. S. national issues on environmental hydrology and hydrogeology - local and emerging global perspectives: Hydrological Science and Technology, v. 5, p. 32-36. \* [Reprinted in 1991]
- Germiat, S.J., and Sharp, J.M., Jr., 1990, Assessment of future coastal land loss along the upper Texas Gulf Coast: Bull., Assoc. Engineering Geologists, v. 27, p. 263-280.
- Sharp, J.M., Jr., 1990, Stratigraphic, geomorphic and structural controls of the Edwards aquifer, Texas, U. S. A.: in Selected Papers on Hydrogeology (E.S. Simpson and J.M. Sharp, Jr., eds.), International Association of Hydrogeologists, Heise, Hannover, v. 1, p. 67-82.
- Sharp, J.M., Jr., and Germiat, S.J., 1990, Risk assessment and causes of subsidence along the Texas Gulf Coast: in (Fairbridge, R.W., Paepe, R., and Jelgersma, S., eds.) Greenhouse Effect, Sea Level, and Drought, Kluwer Academic Publishers, Dordrecht, NATO ASI Series, v. 325, p. 395-414. \*
- Darling, B.K., Hart, M., and Sharp, J.M., Jr., 1991, Delineation of ground-water systems by cluster, principal component, and multiple discriminant analyses: An example from the Trans-Pecos region of Texas: Geol. Soc. America, Abs. with programs (Rocky Mt. - South-Central Secs.), v. 23, p. 15.
- Hibbs, B.J., Sharp, J.M., Jr., and Huber, R.D., 1991, Numerical simulation of ground-water flow in a Gulf coastal plain alluvial system, Lower Colorado River aquifer, Texas: Geol. Soc. America Abs. with Programs (Ann. Mtg.), v. 23, p. A215.

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- Sharp, J.M., Jr., and Fuller, C.M., 1991, Some physical characteristics of the Santana Tuff, Trans-Pecos, Texas: Implications for hydrogeological models: Geol. Soc. America, Abs. with programs (Rocky Mt. - South-Central Secs.), v. 23, p. 93.
- Sharp, J.M., Jr., Kreitler, C.E., and Lesser, J., 1991, Ground Water: in The Gulf of Mexico (Salvador, A., ed.), The Geology of North America, Boulder, Colorado, v. J, Ch. 17, p. 529-543. \*
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- Brown, T.J, and Sharp, J.M., Jr., 1992, A model for the effects of point-source emissions of aerosols on groundwater systems: Jour. Applied Hydrogeology, v. 3, p. 33-46.
- Fu, L., Milliken, K.L., and Sharp, J.M., Jr., 1992, Permeability variations in liesegang-banded Breathitt Sandstone (Pennsylvanian)- diagenetic controls: Geol. Soc. America Abs. with Programs (Ann. Mtg.), v.24, p. 254.
- Fuller, C.M., and Sharp, J.M., Jr., 1992, Permeability and fracture patterns in welded tuff: Implications from the Santana Tuff, Trans-Pecos Texas: Geol. Soc. America Bull., v. 104, p. 1485-1496.
- Hibbs, B.J., and Sharp, J.M., Jr., 1992, Hydrodynamic, hydrochemical, and hydrothermal investigation of bank storage effects in the Colorado River alluvial aquifer: Geol. Soc. America Abs. with Programs (South-Central Sec.), v. 24, p. 14.
- Hibbs, B.J., and Sharp, J.M., Jr., 1992, Hydrodynamics of the bank storage effect - an integrated tracer and modeling study: Geol. Soc. America Abs. with Programs (Ann. Mtg.), v. 24, p. 253.
- Larkin, R.G., and Sharp, J.M., Jr., 1992, On the relationship between river basin geomorphology, aquifer hydraulics, and ground-water flow direction in alluvial aquifers: Geol. Soc. America Bull., v. 104, p. 1608-1620.
- Oetting, G.C., Banner, J.L., and Sharp, J.M., Jr., 1992, Geochemical and Sr variations in groundwaters of the Edwards aquifer, central Texas: Geol. Soc. America Abs. with Programs (Ann. Mtg.), v. 24, p. 336.
- Sharp, J.M., Jr., 1992, Causes and implications of relative sea-level rise along the Texas Gulf of Mexico Coast: in Selected Papers on Aquifer Overexploitation (eds., Simmers, I., Villarroya, F., and Rebollo, L.F.), International Association of Hydrogeologists, Heise, Hannover, v. 3, p. 131-144. \*
- Crowe, J., and Sharp, J.M., Jr., 1993, Detailed hydrogeologic mapping for delineation and protection of endangered species habitats: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 25, p. A-209.

**Journal articles (continued):**

- Ferris, M.A., Kerans, C., and Sharp, J.M., Jr., 1993, Outcrop permeabilities within four facies of a single depositional parasequence, Upper San Andres Formation (Guadalupean/Leonardian), Lawyer Canyon, Guadalupe Mountains, Otero County, New Mexico: in Carlsbad Region, New Mexico and Texas (eds., Love, D.W., Hawley, J.W., Kues, B.S., Adams, J.W., Austin, G.S., and Barker, J.M.), New Mexico Geological Society Forty-Fourth Annual Field Conference, p. 205-210.
- Fu, L., and Sharp, J.M., Jr., 1993, Permeability variations in fractured and liesegang-banded sandstone: Geol. Soc. America, Abs. with Programs (South-Central Sec.), v. 25, p. 10.
- Hill, D.W., and Sharp, J.M., Jr., 1993, A theoretical model of subsidence caused by petroleum production: Big Hill Field, Jefferson County, Texas: Geol. Soc. America, Abs. with Programs (South-Central Sec.), v. 25, p. 14.
- Sharp, J.M., Jr., 1993, Fractured aquifers/reservoirs: Approaches, problems, and opportunities: in Hydrogeology of Hard Rocks, Memoires of the 24th Congress, International Association of Hydrogeologists (eds. Banks, D., and Banks, S.), Oslo, Norway, v. 24, part 1, p. 23-38. \*
- Sharp, J.M., Jr., and Galloway W.E., 1993, Sedimentological controls on fluvial aquifer heterogeneity: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 25, p. A-109. \*
- Sharp, J.M., Jr., Hibbs, B.J., and Larkin, R.G., 1993, Hydrogeological basis for ground-water modeling of fluvial aquifers associated with modern rivers: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 25, p. A-38. \*
- Sharp, J.M., Jr., and Mayer, J.R., 1993, Geological input into models of fractured porous media: Geol. Soc. America, Abs. with Programs (South-Central Sec.), v. 25, p. 41-42.
- Sharp, J.M., Jr., Mayer, J.R., and McCutcheon, E., 1993, Hydrogeologic trends in the Dell City area, Hudspeth County, Texas: in Carlsbad Region, New Mexico and Texas (eds., Love, D.W., Hawley, J.W., Kues, B.S., Adams, J.W., Austin, G.S., and Barker, J.M.), New Mexico Geological Society Forty-Fourth Annual Field Conference, p. 327-330. \*
- Sharp, J.M., Jr., Smyth-Boulton, R.C., and Fuller, C. M., 1993, Permeability-porosity variations and fracture patterns in tuffs: in Hydrogeology of Hard Rocks, Memoires of the 24th Congress International Association of Hydrogeologists (eds., Banks, D., and Banks, S. ), Oslo, Norway, p. 103-114.
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- Fu, L., Milliken, K.L., and Sharp, J.M., Jr., 1994, Porosity and permeability variations in the fractured and liesegang-banded Breathitt Sandstone (Middle Pennsylvanian), eastern Kentucky: Diagenetic controls and implications for modeling dual porosity systems: Journal of Hydrology, v. 154, p. 351-381.

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Holzmer, F.W., and Sharp, J.M., Jr., 1994, Evolution of a redeveloping ground-water system at a reclaimed lignite surface mine, East Texas: in Toxic Substances and the Hydrologic Sciences (A. Dutton, ed.), American Institute of Hydrology, Minneapolis, MN, p. 698-714.

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Mayer, J.R., and Sharp, J.M., Jr., 1994, Local and regional hydrogeologic trends in the Dell City area, Hudspeth County, Texas: in Factors Affecting Water Resources, Proc. Texas Sec. Am. Water Resources Assoc., p. 108 - 114.

Sharp, J.M., Jr., Fu, L., Cortez, P., and Wheeler, E., 1994, An electronic minipermeameter for use in the field and laboratory: Ground Water, v. 32, p. 41-46.

Smyth-Boulton, R.C., and Sharp, J.M., Jr., 1994, Geological controls on porosity and permeability of the Santana ash-flow tuff, Trans-Pecos Texas: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 26, p. A-285.

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Sharp, J.M., Jr., and Hill, D.W., 1995, Land subsidence along the northeastern Texas Gulf coast: Effects of deep hydrocarbon production: Environmental Geology, v. 25, p. 181-191.

Sharp, J.M., Jr., Robinson, N.I., Smyth-Boulton, R.C., and Milliken, K.L., 1995, Fracture skin effects in groundwater transport: in Mechanics of Jointed and Faulted Rock (ed. Rossmanith, H.-P.), A.A. Balkema, Rotterdam, p. 449-454.

Smyth, R.C., and Sharp, J.M., Jr., 1995, Matrix hydrogeological properties and their relationship to fracture spacings in columnar cooling joints in the Santana Tuff, Trans-Pecos, Texas: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 27, p. A-424.

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- Oetting, G.C., Banner, J.L., and Sharp, J.M., Jr., 1996, Geochemical evolution of saline groundwaters in the Edwards aquifer, central Texas: regional stratigraphic, tectonic, and hydrodynamic controls: Jour. Hydrology, v. 181, p. 251 -283.
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- Smyth, R.C., and Sharp, J.M., Jr., 1996, Prediction of hydrogeologic properties of variably welded tuffs using geological data: Geol. Soc. America, Abs. with Programs (Ann. Mtg.), v. 28, p. A-520. \*
- Uliana, M.M., and Sharp, J.M., Jr., 1996, Springflow augmentation possibilities at Comal and San Marcos springs, Edwards aquifer: Trans., Gulf Coast Assoc. Geol. Societies, v. 46, p. 423-432.
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