

STANLEY A. SCHUMM

POSITION: Vice President, Mussetter Engineering, Inc.
Principal Geomorphologist

BIRTH DATE: February 22, 1927 - Kearny, New Jersey

EDUCATION: 1947-50 Upsala College; geology, minor in chemistry; B.A., 1950
1950-54 Columbia University; geomorphology; Ph.D., 1955

POSITIONS HELD:

1994- Mussetter Engineering, Inc., Vice President

1991-94 Resource Consultants & Engineers, Senior Associate

1986- Colorado State University, University Distinguished Professor

1979-90 Water Engineering & Technology, Principal Geomorphologist, Vice President

1967-86 Colorado State University, Associate Professor of Geology;
Professor of Geology, 1970-1986

1954-67 U.S. Geological Survey, Research Geologist, Water Resources Division.
W.A.E. status, Branch of Astrogeologic Studies, Geologic Division 1967-1980

Visiting Professor (Short-Term Appointment)

University of California, Berkeley, Visiting Lecturer 1959-60 (1 year)

American Geological Institute, Visiting Geological Scientist 1960 (2 weeks)

Visiting Scientist, Polish Academy Science 1969 (1 week)

Department of Geology, University of Texas, Austin, Distinguished Visiting Professor

Department of Geography, York University, Toronto 1972 (2 weeks)

College of Forestry, University de los Andes, Merida, Venezuela 1972 (1 month)

Department of Geology, Southern Illinois University 1973 (2 weeks)

Economic Geology Research Unit, University of Witwatersrand, 1975 (2 months)

Center for Advanced Studies, University of Virginia 1980 (2 weeks)

Department of Geography, Louisiana State University, R.J. Russell Lecturer, 1982 (2 weeks)

5-College (Amherst, Mt. Holyoke, Smith, Hampshire, Univ. of Mass)

Distinguished Lecturer in Geology (1 week)

Taiwan National Normal University 1988 (2 weeks)

University of New South Wales 1988 (3 months)

University of Cambridge 1994 (1 week)

Fellowships:

University of Sydney, Australia, 1964-1965
University of Canterbury, New Zealand, Harkness Fellow, 1984
Japanese Society for the Promotion of Science, University of Tsukuba, 1984
Australian National University, 1988

MEMBERSHIPS:

Committees:

Member, Sedimentation, Subcommittee of Pacific Southwest Interagency Committee, 1960-64; Chairman 1963-64
Member, Executive Committee on geomorphology, Geological Society of America, 1962-63
Member, Geomorphology Panel, Geological Society of America, 1964-66
Member, U.S. National Committee for International Union for Quaternary Research, 1962-69, 1973-1982; Vice-chairman, 1966-69
U.S. delegate to eighth International Union for Quaternary Research, Paris, Aug-Sept 1969
Member, Sedimentation Committee Section of Hydrology, American Geographical Union, 1964-69
Member, Commission on Evolution of Hillslopes, International Geographical Union, 1964-69
Member, Committee on Modern Geomorphic Processes, International Geographical Union,
Member, Subcommittee of Fluvial Dynamics, International Geographical Union, 1964-1969
Member of Control Group, American Society of Civil Engineers Task Committee on Channel Characteristics and Sediment Transport Processes, 1971-73
Counselor for Applied Studies, American Quaternary Association, 1971-73
Member, Geology Panel NAS-NRC Committee on Remote Sensing (CORSPERS), 1973-77
Vice-Chairman, Geomorphology Div. Geological Society of America 1978-79
Chairman, Geomorphology Div. Geological Society of America 1979-80
Member, NAS-NRC Comm. on Disposal of Excess Spoil 1980-81
Member, NAS-NRC Comm. on Hydraulic Models 1981-82
Member, National Science Foundation, Earth Sciences Advisory Commission 1981-84
Member, NASA Lunar and Planetary Sciences Review Panel 1986
Vice President - Colorado State University Chapter, Sigma Xi 1986
President - Colorado State University Chapter, Sigma Xi 1987
Panel Chairman NAS-NRC Committee on Solid - Earth Sciences, National Research
Member, Task Committee, Mechanics of River Banks Erosion, American Society Civil
Member, Committee on Sedimentation Engineering, American Society Civil Engineers, 1992
Member, Committee on Geo-Indicators, International Union of Geological Sciences, 1994
Chairman, NAS-NRC Committee on Alluvial Fan Flooding, 1995-96

Editorships:

Advisory Editor, Progress in Geography, 1969-77
Associate Editor, Erosion and Sedimentation Water Resources Research, 1973-75
Associate Editor for Geological Society of America Bulletin, 1973-75
Editorial Board, Journal of Geology, 1975-
Editorial Board, Physical Geography 1979-90

Honors:

1957 Horton Award, American Geophysical Union
1970 Honorable mention American Society of Agricultural Engineers
1974 Outstanding Educator of America
1979 Kirk Bryan Award, Geological Society of America
1980 Distinguished Alumnus Award, Upsala College

1980 L.W. Durrell Award, Colorado State University
1982 David Linton Award, British Geomorphological Research Group
1986 G.K. Warren Prize, National Academy of Science
1986 Honor Scientist, Colorado State University Chapter, Sigma Xi
1986 University Distinguished Professor, Colorado State University
1989 Fellow, American Association for the Advancement of Science
1996 Outstanding Paper Award, Society for Sedimentary Geology
1997 Distinguished Career Award, Geological Society of America

Recognition:

1973 Listing, Who's Who in Colorado
1973 Listing, Who's Who in the West
1979 Listing, Men of Achievement
1980 Listing, Who's Who in America
1981 Listing, Who's Who in Technology Today

Research Grants:

Model Study of River Meanders, NSF, 1968-71
Lunar Erosion Mechanisms, U.S. Geological Survey, 1968-71
Experimental Study of Drainage Basin evolution, Army Research Office-Durham, 1970-73
Experimental Study of Incised Channel Morphology, NSF, 1971-72
Model Study of River Patterns, NSF, 1973-75
Martian Fluvial Processes, U.S. Geological Survey, 1972-73
Geomorphology of Oil Shale Region, Colorado, State of Colorado, 1972-74
Experimental Study of Geomorphic Thresholds, Army Research Office, 1973-76
Experimental Study of Meander Cutoff, NSF, 1975-77
Geomorphology of Great Sand Dunes, National Park Service, 1975-76
Salinity of Upper Colorado River, OWRT, 1974-76
Geomorphic Approach to Land Management, OWRT, 1976-79
Effect of Urbanization on Erosion, RANN, NSF, 1976-79
Gullying in Eastern Colorado, Colorado Experiment Station, 1976-79
Experimental Study of River Morphology, NSF, 1977-80
Episodic Erosion in Steeplands, ARO, 1978-80
Geomorphic Controls on Diffuse-Source Salinity, Upper Colorado River Basin, OWRT, 1979-81
Yazoo Basin Geomorphology, Soil Conservation Service, 1980-82
Effect of Neotectonics on Rivers, NSF, 1980-82
Geomorphic Approach to Mined-Land Reclamation, OWRT, 1980-83
Experimental Fluvial Geomorphology, NSF, 1983-84
Prehistory of Indus Valley, NSF, 1983-84
Active Tectonics NSF 1985-86-88
Martian Drainage Networks, NASA 1984-87
Experimental Geomorphology, ARO, 1984-87
Climatic Geomorphology, ARO, 1986-91
Anastomosing Channels Australia, NSF 1988-89
Experimental Study of Baselevel change, NSF 1988-91
Geomorphology of Lower Mississippi River, Corps of Engineers 1988-90
Geomorphology of the New Madrid Seismic Zone, U.S. Geological Survey, 1992, 1994
Geomorphology of Eglin AFB & White Sands Missile Range, Dept. of Defense, 1992-94

Co-Investigator:

Geomorphology of Middle Mississippi River, Corps of Engineers, 1972-73
Geomorphology of Pool 25, Upper Mississippi River, Fish and Wildlife Service, 1974-75

Fan-delta Processes and Depositional Models, NSF, 1977-79
Hazards in the Highway Environment, Federal Highway Administration, 1978-79
Geomorphology of Muddy Creek Indiana, SCS, 1984

Consulting:

Cameron Engineers, Denver
Regional Transportation District, Denver
Colony Development Operation, Atlantic Richfield, Denver
DDI Exploration, Paris
Integral Ltd., Medellin, Colombia
Manawatu Catchment Board, Palmerston North, New Zealand
Soil Conservation Service
U.S. Army, Corps of Engineers, Louisville District, Huntington District, Ohio River Division
Waterways Experiment Station, Sacramento District, Mobile District
U.S. Department of Justice
National Science Foundation
Ertec Western
Dames and Moore
Office of Surface Mining
Nebraska Power and Irrigation
State of Ohio
Public Service Co. of Indiana
Ebasco Services, New York
Everitt and Assoc., Maryland
Bureau of Land Management
National Coal Association
Attorney General, State of Colorado
Attorney General, State of Texas
Attorney General, State of Idaho
National Wildlife Federation
Mountain States Legal Foundation
Snell and Wilmer, Phoenix
Exxon, Houston

Foreign Travel: (Scientific)

Australia, 1 year, 1964-65, 2 weeks 1984, 3 months 1988
New Zealand, 3 weeks, 1965, 1 month 1976, 1 month 1980, 6 weeks, 1984
Belgium, 2 weeks, 1966
United Kingdom, 1 week, 1966, 1 week, 1969, 3 weeks, 1986, 1 week, 1994
East Africa, 6 weeks (Ethiopia, Kenya, Uganda, Tanzania, South Africa) 1969
Israel, 1 week, 1969, 2 weeks, 1980
Poland, 1 week, 1969
France, 1 week, 1969
Venezuela, 1 month, 1972
South Africa, 3 months, 1975, 1 month, 1985, 2 weeks, 1992
Brazil, 3 weeks, 1975
Colombia, 1 week, 1977
Jamaica, 1 week, 1977
Japan, 6 weeks, 1984
Pakistan 1 month 1987
China (PRC) 2 weeks, 1987
Taiwan 2 weeks, 1988

Egypt 5 weeks, 1990, 1 week 1992
Bangladesh, 1 week, 1993

Memberships in Professional Organizations:

American Geophysical Union, 1955-
American Association Advancement of Science (Fellow), 1956-
Association of American Geographers, 1965-
American Geographical Society, 1967-1970
Colorado Scientific Society, 1956-1973
Geological Society of America (Fellow), 1955
International Association of Planetology, 1970-80
Sigma Xi, 1955-
American Quaternary Association (AMQUA), 1970-
American Society of Civil Engineers, 1968-
British Geomorphological Research Group, 1982-
Japanese Geomorphological Union, 1984-

Publications

(Abstracts are not included)

- 1955 - Schumm, S.A., The relation of drainage basin relief to sediment loss: Pub. Internat. Assoc. Hydrology, I.U.G.G., v. 1, p. 216-219.
- 1956 - Schumm, S.A., Evolution of drainage systems and slopes in badlands at Perth Amboy, New Jersey: Geol. Soc. America Bull., v. 67, p. 597-646.
- 1956 - Schumm, S.A., The movement of rocks by wind: Jour. Sed. Petrology, v. 26, p. 284-286.
- 1956 - Schumm, S.A., The role of creep and rainwash on the retreat of badland slopes: Am. Jour. Sci., v. 254, p. 693-706.
- 1957 - Schumm, S.A., and Hadley R.F., Arroyos and the semiarid cycle of erosion: Am. Jour. Sci., v. 256, p. 161-174.
- 1959 - Langbein, W.B., and Schumm, S.A., Yield of sediment in relation to mean annual precipitation: Am. Geophys. Union Trans., v. 39, p. 1076-1084
- 1960 - Schumm, S.A., The effect of sediment type on the shape and stratification of some modern fluvial deposits: Am. Jour. Sci., v. 258, p. 177-184
- 1960 - Schumm, S.A., The shape of alluvial channels in relation to sediment type: U.S. Geol. Survey Prof. Paper 352-B, p. 17-30
- 1961 - Schumm, S.A., Effect of sediment characteristics on erosion and deposition in ephemeral-stream channels: U.S. Geol. Survey Prof. Paper 352-C, p. 31-70.
- 1961 - Schumm, S.A., and Hadley, R.F., Progress in the application of landform analysis in studies of semiarid erosion: U.S. Geol. Survey Circ. 437, 14 p.
- 1961 - Hadley, R.F., and Schumm, S.A., Sediment sources and drainage-basin characteristics in upper Cheyenne River basin: U.S. Geol. Survey Water-Supply Paper 1531-B, p. 137-196.
- 1961 - Schumm, S.A., The dimensions of some stable alluvial channels: U.S. Geol. Survey Prof. Paper 424-B, p.26-27.

- 1961 - Schumm, S.A., and Lichty, R.W., Recent flood-plain formation along Cimarron River in Kansas: U.S. Geol. Survey Prof. Paper 424-C, p. 112-114.
- 1962 - Schumm, S.A., Erosion on miniature pediments in Badlands National Monument, South Dakota: Geol. Soc. America Bull., v. 73, p. 719-724.
- 1963 - Schumm, S.A., and Lusby, G.C., Seasonal variation of infiltration capacity and runoff on hillslopes in western Colorado: Jour. Geophys. Research v. 68, p. 3655-3666.
- 1963 - Schumm, S.A., The disparity between present rates of denudation and orogeny: U.S. Geol. Survey Prof. Paper 454-H, 13p.
- 1963 - Schumm, S.A., A tentative classification of alluvial river channels: U.S. Geol. Survey Circ. 477, 10 p.
- 1963 - Schumm, S.A., Sinuosity of alluvial rivers on the Great Plains: Geol. Soc. America Bull., v. 74, p. 1089-1100.
- 1963 - Schumm, S.A., and Lichty, R.W., Channel widening and flood-plain construction along Cimarron River in southwestern Kansas: U.S. Geol. Survey Prof. Paper 352-D, p. 71-88.
- 1964 - Schumm, S.A., Seasonal variations of erosion rates and processes on hillslopes in western Colorado: Zeitschr. Geomorph., Supplementband, v. 5, p. 215-218.
- 1964 - Schumm, S.A., and Chorley, R.J., The fall of threatening rock: Am. Jour. Sci., v. 262, p. 1041-1054.
- 1964 - Schumm, S.A., A method of estimating hydrologic response to climate change: Oonoon, Sydney Univ. Geog. Soc., v. 6., p. 5-12.
- 1965 - Schumm, S.A., and Lichty, R.W., Time, space and causality in geomorphology: Am. Jour. Sci., v. 263, p. 110-119.
- 1965 - Schumm, S.A., Geomorphic research: Applications to erosion control in New Zealand: Soil and Water (Soil Conserv. and Rivers Control Council), v. 1, p. 21-24.
- 1965 - Schumm, S.A., Quaternary paleohydrology, in The Quaternary of the United States: Princeton, Princeton Univ. Press, p. 783-794.
- 1966 - Schumm, S.A. and Chorley, R.J., Talus weathering and scarp recession in the Colorado plateaus: Zeitschr. Geomorph., v. 10, p. 11-36.
- 1966 - Schumm, S.A., The development and evolution of hillslopes: Jour. Geol. Education, v. 14, p. 98-104.
- 1967 - Schumm, S.A., Rates of rock creep on hillslopes in western Colorado: Science v. 155 p. 560-561.

- 1967 - Schumm, S.A., Paleohydrology: Application of modern hydrologic data to problems of the ancient past, International Hydrology Symposium (Fort Collins, U.S.A.) Proc. v. 1, p. 185-193.
- 1967 - Schumm, S.A., Meander wavelength of alluvial rivers: Science, v. 157, p. 1549-1550.
- 1967 - Schumm, S.A., On the movement of surface markers, p. 160; Erosion measured by stakes, p. 161-162; On vegetation as a marker, p. 168; in Field Methods for the Study of Slope and Fluvial Processes, Revue de Geomorphologie Dynamique, v. 17, p. 152-188.
- 1968 - Schumm, S.A., Aerial photographs and water resources: in Aerial Surveys and Integrated Studies: UNESCO, Natural Resources Research Series 6, p. 70-79.
- 1968 - Schumm, S.A., Weather modification and the landscape: Yale Scientific Magazine v. 43, p. 10, 11, 14, 16, 18, 23.
- 1968 - Schumm, S.A., Speculations concerning paleohydrologic controls of terrestrial sedimentation: Geol. Soc. America Bull, v. 79, p. 1572-1588.
- 1968 - Scheidegger, A.E., Fairbridge R.W. and Schumm, S.A., Badlands: in Encyclopedia of Geomorphology, p. 43-48: Rheinhold Book Corp., New York. 1295 p.
- 1968 - Schumm, S.A., River adjustment to altered hydrologic regimen, Murrumbidgee River and paleochannels, Australia: U.S. Geol. Survey Prof. Paper 598, 65 p.
- 1969 - Schumm, S.A., River metamorphosis: Jour. Hyd. Div., Proc. American Soc. Civil Engineers, HY 1, p. 255-273.
- 1969 - Schumm, S.A., Geomorphic Implications of climatic changes: in Water, Earth and Man (edited by R.J. Chorley) p. 525-534: London, Methuen and Co., 588 p.
- 1969 - Schumm, S.A., A geomorphic approach to erosion control in semiarid regions: Am. Soc. Agricultural Eng. Trans., v. 12, no. 1, p. 60-68.
- 1970 - Schumm, S.A., Experimental studies on the formation of lunar surface features by fluidization: Geol. Soc. America Bull., v. 81, p. 2539-2552.
- 1970 - Schumm, S.A., Bird, J.B., and Starkel, L., Report of work group on classification of hillslopes: Zeit. Geomorph. Supplementband 9, p. 85-87.
- 1971 - Schumm, S.A. and Kahn, H.R., Experimental study of channel patterns: Nature, v. 233, p. 407-409.
- 1971 - Schumm, S.A., Fluvial Geomorphology: The Historical Perspective, in River Mechanics, v. 1 (edited by H.W. Shen) Chap. 4, 30 p.
- 1971 - Schumm, S.A., Fluvial Geomorphology: Channel Adjustment and River Metamorphism, in River Mechanics, v. 1 (edited by H.W. Shen) Chap. 5, 22 p.
- 1972 - Schumm, S.A. and Khan, H.R., Experimental Study of channel patterns: Geol. Soc. America Bull., v. 83, p. 1755-1770.

- 1972 - Schumm, S.A., Fluvial Paleochannels: Soc. Econ. Paleontologist and Mineralogists, Spec. Pub. 16, p. 98-107.
- 1972 - Schumm, S.A., Khan, H.R., Winkley, B.R. and Robbins, L.G., Variability of river patterns: Nature (Phy. Sci.), v. 237, p. 75-76.
- 1972 - Schumm, S.A., Paleohydrology, in Encyclopedia of Geochemistry and Environmental Sciences, Van Nostrand Reinhold Co., p. 876-880.
- 1972 - Schumm, S.A., Parker, R.S., Shepherd, R.G., Edgar, D.E. and Mosley, M.P., Anomalous behavior of model rivers: in International Geography 1972, Univ. of Toronto Press, p. 60-61.
- 1973 - Schumm, S.A. and Shepherd, R.G., Valley floor morphology: evidence of subglacial erosion? Area: Inst. of British Geographers, v. 5, p. 5-9.
- 1973 - Schumm, S.A. and Parker, R.S., Implications of complex response of drainage systems for Quaternary alluvial stratigraphy: Nature, Physical Sci., v. 243, p. 99-100.
- 1973 - Schumm, S.A. and Stevens, M.A., Abrasion in place: A mechanism for rounding and size reduction of coarse sediments in rivers: Geology, v. 1, p. 37-40.
- 1974 - Shepherd, R.G. and Schumm, S.A., Experimental study of river incision: Geol. Soc. America, Bull., v. 85, p. 257-268.
- 1974 - Schumm, S.A., Geomorphic thresholds and complex response of drainage systems, in Fluvial Geomorphology (edited by M. Morisawa) Publications in Geomorphology, SUNY Binghamton, New York, p. 299-310. Reprinted 1981, Allen and Unwin, London.
- 1974 - Schumm, S.A., Sediment yields of drainage basins: Encyclopedia Britannica, 15th Edition, v. 16, p. 474-480 (reprinted 1984).
- 1974 - Schumm, S.A., Structural origin of large Martian channels: Icarus, v. 22, p. 371-389.
- 1974 - Schumm, S.A., Geomorphology: Yearbook of Science and Technology, McGraw-Hill, N.Y., p. 13-23.
- 1975 - Patton, P.C. and Schumm, S.A., Gully erosion, northwestern Colorado: A threshold phenomenon: Geology, v. 3, p. 88-90.
- 1975 - Stevens, M.A., Simons, D.B. and Schumm, S.A., Man-induced changes of middle Mississippi River: Jour. Waterways, Harbors and Coastal Eng. Div., ASCE Proc., v. 101, p. 119-133.
- 1975 - Woolsey, T.S., McCallum, M.E. and Schumm, S.A., Modeling of diatreme emplacement by fluidization: Physics and Chemistry of the Earth, v. 9, p. 24-42, Pergamon Press, Oxford.
- 1976 - Schumm, S.A. and Beathard, R.M., Geomorphic thresholds: An approach to river management: in Rivers 76. American Soc. Civil Engineers, New York, v. 1, p. 707-724.
- 1976 - Stevens, M.A., Simons, D.B. and Schumm, S.A., Geomorphic study of Pool 25: in Rivers 76, American Soc. Civil Engineers, N.Y., v. 2, p. 1655-1679.

- 1976 - Schumm, S.A., Episodic erosion: A modification of the geomorphic cycle: in Theories of Landform Development (editors W.N. Melhorn and R.C. Flemal). Pub. in Geomorphology, SUNY, Binghamton, N.Y., p. 69-85. Reprinted 1982 by Allen and Unwin, London.
- 1977 - Womack, W.R. and Schumm, S.A., Terraces of Douglas Creek, northwestern Colorado. An example of episodic erosion: *Geology*, v. 5, p. 72-76.
- 1977 - McCallum, M.D., Woolsey, T.S. and Schumm, S.A., A fluidization mechanism for subsidence of bedded tuffs in diatremes and related volcanic vents: *Bull. Volcanologique*, v. 34-4, p. 1-16.
- 1977 - Mosley, M.P. and Schumm, S.A., Stream junctions - A probable location for bedrock placers: *Economic Geology*, v. 72, p. 691-694.
- 1977 - Schumm, S.A., Applied fluvial geomorphology: in Applied Geomorphology (J.R. Hails, editor). Elsevier, Amsterdam, p. 119-156.
- 1978 - Ethridge, F.G. and Schumm, S.A., Reconstructing paleochannel morphology and flow characteristics: methodology, limitations, and assessment: in A.D. Miall, ed., *Fluvial Sedimentology*: Canada Soc. Petrol. Geol., Memoir No. 5, p. 703-722.
- 1979 - Begin, Z.B. and Schumm, S.A., Instability of alluvial valley floors: A method for its assessment: *Am. Soc. Agr. Eng. Trans.*, v. 22, p. 347-350.
- 1979 - Schumm, S.A. and Meyers, D.F., Morphology of alluvial rivers of the Great Plains: *Great Plains Agr. Council Pub.* 91, p. 9-14.
- 1979 - Schumm, S.A., Geomorphic thresholds: the concept and its applications: *Inst. British Geogr. Trans.*, v. 4, p. 485-515.
- 1980 - Schumm, S.A., Plan form of alluvial rivers: *International Workshop on Alluvial Rivers, University of Roorkee (India), Proc.*, p. 4-21-4-33.
- 1980 - Schumm, S.A., Kirk Bryan Award - Response: *Geol. Soc. America Bull.* (Part 2), p. 1101-1102.
- 1980 - Shen, H.W., Schumm, S.A. and Doehring, D.O., Stability of stream channel patterns: *National Acad. Sci., Transportation Research Record* 736, p. 22-28.
- 1980 - Schumm, S.A., Some applications of the concept of geomorphic thresholds in Coates, D.R. and Vitek, J.D. (editors), *Thresholds in Geomorphology*: George Allen and Unwin, London, p. 473-485.
- 1980 - Begin, Z.B., Meyer, D.F. and Schumm, S.A., Knickpoint migration due to base-level lowering: *Jour. Waterways, Coastal, and Ocean Div., Am. Soc. Civil Eng. Proc.*, v. 106, p. 369-387.
- 1980 - Begin Z.B., D.F. Meyer and Schumm, S.A., Sediment production of alluvial channels in response to base-level lowering: *American Soc. Agr. Eng. Trans.*, v. 23, p. 1183-1187.
- 1980 - Bergstrom, F. and Schumm, S.A., Episodic behavior in badlands: *Internat. Assoc. Hydrologic Sciences Pub.* 132 (Christchurch Symposium), p. 478-592.

- 1981 - Begin, Z.B., Meyer, D.F. and Schumm, S.A., Development of longitudinal profiles of alluvial channels in response to baselevel lowering: *Earth Surface Processes and Landforms*, v. 6, p. 49-68.
- 1981 - Patton, P.C. and Schumm, S.A., Ephemeral-stream processes: Implications for studies of Quaternary valley fills, *Quaternary Res.*, v. 15, p. 24-43.
- 1981 - Schumm, S.A., Evolution and response of the fluvial system: sedimentologic implications, *Soc. Economic Paleontologists and Mineralogists Spec. Pub.* 31, p. 19-29.
- 1981 - Nadler, C.T. and Schumm, S.A., Metamorphosis of South Platte and Arkansas Rivers, eastern Colorado: *Physical Geogr.*, v. 2, p. 95-115.
- 1982 - Schumm, S.A., Bean, D.W. and Harvey, M.D., Bed-form dependent pulsating flow in Medano Creek, southern Colorado: *Earth Surface Processes and Landforms*, v. 7, p. 17-18.
- 1982 - Schumm, S.A. and Harvey, M.D., Natural erosion in the USA: *American Soc. Agronomy, Spec. Pub.* 45, p. 15-22.
- 1982 - Laronne, J.B. and Schumm, S.A., Soluble-mineral content in surficial alluvium and associated Mancos Shale: *Water Res. Bull.*, v. 18, p. 27-35.
- 1982 - Schumm, S.A., Costa, J.E., Toy, T., Knox, J., Warner, R., and Scott, J., Geomorphic assessment of uranium mill tailings: in *Uranium Mill Tailings Management*, Nuclear Energy Agency, Paris, p. 69-87.
- 1982 - Schumm, S.A., Costa, J.E., Toy, T., Knox, J., and Warner, R., Geomorphic hazards and uranium tailings disposal: *Proc. Management of water from uranium mining and milling: Internat. Atomic Energy Agency (Vienna)*, p. 111-124.
- 1982 - Parker, R.S. and Schumm, S.A., Experimental study of drainage networks in Badland geomorphology and piping (Eds. R. Bryan and A. Yair) *Geobooks Norwich U.K.*, p. 153-168.
- 1983 - Harvey, M.D., Watson, C.C. and Schumm, S.A., Channelized streams: An analog for the effects of urbanization: *Internat. Symp. Urban Hydrology Hydraulics and Sediment Control, Proc. (Lexington, Ky)* p. 401-409.
- 1983 - Burnett, A.W. and Schumm, S.A., Alluvial river response to neotectonic deformation in Louisiana and Mississippi, *Science*, v. 222, p. 49-50.
- 1984 - Begin, Z.B. and Schumm, S.A., Gradational thresholds and landform singularity. Significance for Quaternary studies. *Quat. Res.*, v. 21, p. 267-274.
- 1984 - Watson, C.C., Harvey, M.D. and Schumm, S.A., Neotectonic effects on river pattern: in *River meandering* (ed. C.M. Elliott) *Amer. Soc. Civil Eng.* N.Y., p. 55-66.
- 1984 - Schumm, S.A., River morphology and behavior: Problems of extrapolation: in *River Meandering* (ed. C.M. Elliott) *Amer. Soc. Civil Eng.*, N.Y., p. 16-29.

- 1984 - Winkley, B.R., Schumm, S.A., Mahmood, K., Lamb., M.S. and Linden, W.M., New developments in the protection of irrigation, drainage and flood control structures on rivers. Internat. Comm. Irrigation and Drainage 12th Congress (Fort Collins) Trans Vol. C, p. 69-111.
- 1985 - Schumm, S.A., Explanation and extrapolation in geomorphology; Seven reasons for geologic uncertainty: Japanese Geomorph. Union, Trans., V. 6, p. 1-18.
- 1985 - Schumm, S.A., Patterns of alluvial rivers: Annual Rev. Earth Planetary Sci., v. 13, p. 5-27.
- 1986 - Schumm, S.A., and Phillips, Loren, Composite channels of the Canterbury Plain, New Zealand: A martian analog?, Geology, v. 14, p. 326-329.
- 1986 - Schumm, S.A., Alluvial river response to active tectonics: in Active Tectonics, National Academy Press, Washington, D.C., p. 80-94.
- 1987- Schumm, S.A. and Ash, Donald, Paleohydrology: in Oliver, J.E., and Fairbridge, R.W. (eds.) Encyclopedia of Climatology, Van Nostrand-Reinhold, New York, p. 675-682.
- 1987 - Paine, A.D.M., Meyer, D.F. and Schumm, S.A., Incised channel and terrace formation near Mount St. Helens, Washington, Internat. Assoc. Hydrologic Sci. Publ. 165, p. 451-460.
- 1987 - Harvey, M.D. and Schumm, S.A., Response of Dry Creek in California to land use change, gravel mining and dam closure. Internat. Assoc. Hydrologic Sci. Pub. 165, p. 451-460.
- 1987 - Jin, Desheng and Schumm, S.A., A new technique for modeling river morphology: in Gardner, V. (ed.). International Geomorphology, Wiley, Chichester, p. 681-690.
- 1987 - Gregory, D.I. and Schumm, S.A., The effect of active tectonics on alluvial river morphology: in Richards, K.S. (ed.) River channels: Environment and process: Blackwells, London, p. 41-68.
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