



KENNETH R. WRIGHT, P.E.
CHIEF ENGINEER

CURRENT

Serves as Chief Engineer for Wright Water Engineers (1961 to present) in its general practice of engineering. Includes agricultural and irrigation engineering, hydrology, water rights, water supply, groundwater studies, monitoring and wells, flood control and drainage, water rights appraisals, dams, pollution management, and permitting. In charge of company paleohydrologic research at Mesa Verde National Park and at Machu Picchu, Peru.

EDUCATION

M.S. Civil Engineering, 1957
University of Wisconsin, Madison

Real Estate Appraisal, 1992-2005
University of Colorado, Denver

B.B.A., Business Administration, 1951
University of Wisconsin, Madison

Lecturer, Water Rights, 1991-2002
University of Nevada/Las Vegas

B.S. Civil Engineering, 1951
University of Wisconsin, Madison

Lecturer, Water Rights, 2001, 2002
University of Wisconsin, Madison

Continued Education in Hydrology, 1967
Colorado State University

REGISTRATIONS

Registered Professional Engineer:

- Colorado
- Arizona
- California
- Kansas
- Montana
- Nevada
- Nebraska
- New Mexico
- Oklahoma
- Texas
- Utah
- Wisconsin
- Wyoming

Colorado Licensed Real Estate Appraiser

Temporary Licensed Real Estate Appraiser, Puerto Rico

Member and Past Chairman, Colorado State Board of Registration for Professional Engineers and Land Surveyors, 1975 to 1984. Served as Hearing Officer for professional practices complaints. Past Member, National Council of Engineering Examiners.

Registered Land Surveyor, Arizona

REPRESENTATIVE PROJECTS

Appraisals and Evaluations

Condemnation of Arizona Water Company at Yuma. Valuation of Blaisdell Water Rights out of Colorado River at Yuma, Arizona in condemnation. Expert testimony in Yuma District Court.

Lake Durango Water Company. Appraisal of direct flow and storage rights, physical reservoir, pipelines, and facilities of Lake Durango Water Company, including Durango West service area.

Internal Revenue Service. Appraisal services for area counsel of U.S. Internal Revenue Service at San Jose, California on pistachio orchard water rights on evasion case.

Broomfield Home Builder. Appraisal of portfolio of eight direct flow and storage water rights in South Platte River system for dedication to governmental entity.

Leadville Water Company Condemnation. Appraised water rights in condemnation lawsuit and testified in the Lake County District Court on market value and condition of 1881 pipelines.

Chatfield Reservoir. Analyzed water rights and testified on value of Plum Creek water rights in Denver Federal District Court, U.S. Army Corps of Engineers condemnation, for U.S. Department of Justice.

Farmer's Reservoir and Irrigation Company Condemnation. Prepared evaluation of Standley Lake Reservoir and appraisal of market value of reservoir with water rights in condemnation action by City of Thornton.

Colorado – Big Thompson Units. Analyzed yield in 1967 and prepared valuation of water right units for Water Supply and Storage Company of Ft. Collins, Colorado.

Adolph Coors, Company. Prepared valuations of direct flow and reservoir storage water rights for Clear Creek and South Platte River.

Appraisal of Transmountain Ditch in Rocky Mountain National Park. Analysis and appraisal of a transmountain ditch for exchange for Colorado Big Thompson Article 24 water. Appraisal prepared for National Park Service.

Appraisal of Reservoir Storage Right and Reservoir Right-of-Way. Appraisal for Department of Justice for National Park Service of reservoir easement and permit interests on failed dam located within Rocky Mountain National Park.

Valuation of Denver Basin Groundwater. Provide opinion of value of 30,000 acre-feet of adjudicated but undeveloped groundwater underlying lands of State Land Board. Work included analysis of distribution and transmission pipeline costs.

Appraisal of Surface and Groundwater Water Rights for FDIC. Analyze and prepare appraisal of South Platte surface water rights and Denver basin groundwater for Federal Deposit Insurance Corporation.

Western Water Company. Value of damages to remainder of water resources in condemnation lawsuit brought by Parker Water & Sanitation District.

Conservation Easement, Lower Arkansas Irrigation Company. Market value appraisal of shares in ditch company having direct flow and storage rights for conservation easement on water rights.

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E-470 Condemnation. Testified in Adams County District Court on damages for landowner in a condemnation lawsuit brought by the E-470 Authority. Second similar case was settled.

Boulder Diagonal Highway. Analyzed and testified in Boulder District Court on water rights taking market value for Colorado Department of Highways.

Homestake Mining Company. Performed fair market value appraisals for two water rights at Lead, South Dakota for Homestake Mining Company.

Exxon Appraisals. Served as appraiser for Exxon USA for water utility and sewer utility of Battlement Mesa. Also appraised recreational facilities prior to sale of special district. Determined value of water rights for sale to Battlement Mesa Metropolitan District. Provided consulting evaluation services on contract negotiations for U.S. government for long-term contract for Ruedi Reservoir water supply. Pro-forma income and expense of projects for Battlement Mesa Water and Sanitation District.

Colorado National Bank. Appraiser for Trust Department of CNB for South Park water rights to settle estate and to advise on sale to municipality. Appraisal used as a basis for settlement and sale purposes.

Court Testimony on Appraisals. Testified in court as expert witness on value of water rights; twice in Federal District Court, once in Lake County District Court on condemnation of water utility and in Yuma, Arizona State Court on condemnation of Yuma Water Company.

Marcus and Ann Church Estates. Served as Rocky Flats area for direct flow and storage water rights appraiser for Marcus Church estate (1980) and again for Ann Church estate (1984).

Appraisal Handbook. Assisted on preparation of appraisal handbook for water rights for Colorado Water Trust and Colorado Coalition of Land Trusts in 2005.

North Park Reservoir Appraisal. Prepared appraisal of direct flow and storage rights (1991) in North Park for sale to State of Colorado for fishery purposes. Both State of Colorado and seller approved appraisal.

Western Water Company, Cherry Creek Project. Appraised value of tributary and deep nontributary water rights for Citywide Bank in 2005.

OTHER REPRESENTATIVE PROJECTS

Dam and Reservoir

Low-Head Dam Safety. Served as dam safety expert on low-head dam hazards in drowning-induced lawsuits in Oregon, Arizona, New Jersey, and West Virginia.

Denver Harvard Gulch Park Dam. Designed and observed construction operations for small dam and reservoir at Harvard Gulch Park for City and County of Denver.

La Plata River Dam and Reservoir. Assisted with conceptual design of 120-foot-high Long Hollow Dam and Reservoir. Prepared initial estimate of cost to construct. Consulted with Colorado Attorney General, Colorado Water Conservation Board, and Colorado State Engineer on permitting. Potential seepage through abutments considered.

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Dam Safety Inspections. Hydrology and inspection of dams at St. Mary's Lake, Dukes Lake, Rolling Reservoir, and B-3 Reservoir, 1982. Organized Dam Safety Conference with Federal Emergency Management Agency, 1983. Assisted on preparation of legislation of dam safety for 1983 legislative session (HB 1296). Received award from Professional Engineers of Colorado.

Adolph Coors Brewing Company. Planning and design of embankments for reservoir storage at Clear Creek-Golden brewery. Work included dam seepage and outlet works.

Dam and Reservoir Planning for Water Supply and Storage Company (Irrigation Company). Company engineer, 1964 to 1988. Dam and reservoir planning, design, and construction, including engineer of record for 86-foot high Long Draw Dam (1966 to 1972) and Trap Lake II preliminary design (1981 to 1983). Analysis of feasibility, agricultural economics, and irrigation water requirements. Follow-up assignment to opine on potential seepage through dam.

Dam Safety. Responsible engineer on Storrie Lake Dam safety emergency at Las Vegas, New Mexico. Monitoring of overall dam safety and adequacy and structural failure in outlet works and piping. Reporting to State Engineer of New Mexico.

Kremasta Dam, Greece. Audit of river discharge field measurements and handling of technical corrections, basin flood yield studies, sediment discharge analyses, channel degradation studies and maximum probable flood studies for spillway design, 1961-62.

Fall River Dam. Engineer of record for design and construction supervision of 83-foot-high Fall River Dam for Agricultural Ditch and Reservoir Company in 1971-72 after original designer encountered foundation problems.

Design and Construction

Vail, Colorado. Design and construction of 300,000 gallon buried water tank, water supply for Midvail and water supply for Lions Head. Planning, design, and construction of Vail West water system.

Mt. Werner Water and Sanitation District. Provided service plan for formation of district in 1966 and planned, designed, and supervised construction of municipal water system.

Water and Sewer Design and Construction for Exxon, USA. Principal Engineer for planning, municipal design, and construction-supervision of utilities for new Exxon municipality to serve 20,000 people. Included hydrology, treatment plants, pipelines, pumping stations, reservoirs, river water supply, and wells. Engineering for formation of municipal districts. Included NPDES permitting, and design of sewage treatment plant modifications to reduce power consumption.

Drainage, Flood, and Erosion Control

Meadow Creek Homeowners Association, Lakewood, Colorado. Hired by homeowners' association to determine source of groundwater periodically flooding a residential unit.

Sableglen Residences, Colorado Springs, Colorado. Retained to prepare a design for drainage facilities for four existing residences where drainage problems occurred on a routine basis.

Wyndham Park, Arvada, Colorado. Represented the builder in a lawsuit with regard to surface and subsurface drainage deficiency issues at a multifamily development.

Integrated Drainage System for University of Southern Colorado, Pueblo, Colorado. Planning and design of subsurface drainage system, surface drainage, and landscape modifications to provide protection to campus housing and university buildings to avoid damaging of foundations, to avoid wet basements, and to minimize wetting of highly expansive soils. Materials analysis for subsurface drains at depths of 20 to 25 feet and surface drainage materials selection with consideration of alkaline soils.

Multifamily Housing, Highway 36 in Adams County, Colorado. The Colorado Department of Highways improved Highway 36 in the north Denver area, which caused the blockage of historic drainage. Flooding of multifamily housing occurred. The problem was defined and solutions were proposed.

Ammons Park HOA, Denver, Colorado. Prepared final design of works for homeowners' association to provide suitable drainage to large multifamily complex. Construction phase services were included.

Sol Vista Drainage, Grand County, Colorado. Engineer of record for drainage services for multifamily buildings.

Colorado Christian Living, Centennial, Colorado. Designer of record for drainage works for multifamily development to protect development from offsite runoff.

Denver Urban Drainage and Flood Control Manual. Author of flood control and drainage criteria manual in 1967-1969 for Denver Regional Council of Governments and Urban Drainage and Flood Control District for a six county metro area. This drainage criteria manual was in its twelfth printing before we were asked to prepare a comprehensive revision in 2000.

Los Alamos National Laboratory. Oversaw the development and analysis of a graphical HEC-1 hydrologic model and HEC-RAS/HecGeo-RAS hydraulic model for a post-fire study of a 58-square-mile drainage area near LANL. Made recommendations for drainage and flood control in 2000-2003.

Melbourne, Australia. Prepared drainage criteria manual and three drainage master plans for the Melbourne and Metropolitan Board of Works.

Harvard Gulch. Design engineering for City and County of Denver Harvard Gulch project in southeast Denver for then Public Works Director William McNichols. Project included underground pipes and conduits, slow-flow channels, high velocity channels, and detention storage.

Mesa Verde National Park. Served as forest hydrologist for post-fire erosion control for the 1996 Chapin No. 5 Mesa Verde forest fire following the initial assessment by the Burned Area Emergency Rehabilitation (BAER) team, including training and archeological site erosion protection.

Department of Energy. Engineer on master plan for storm drainage and flood control for Rocky Flats Nuclear Energy Plant. Work included evaluation of ordinary and extreme floods and erosion and revegetation studies to help manage potential contaminant movement. Work included use of several onsite reservoirs.

City and County of Denver. Served as drainage design engineer for Police Administrative Building in downtown Denver in regard to flood from Cherry Creek. Designed measures to protect structure from 500-year floods.

Las Vegas, New Mexico. Dam safety engineer for large dam and reservoir following structural failure of concrete outlet works. Services included implementation of emergency measures, dam failure emergency response plan for catastrophe flooding and cost estimates for corrective work. Reported weekly to New Mexico State Engineer during emergency period.

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Salt River Erosion Control Dam. Served as technical investigator for low-head dam erosion control structure in the Salt River, Tempe, Arizona of the Maricopa County Flood Control District relative to standard of care and safety in regard to multiple drownings in 1992 and 1993.

American Society of Civil Engineers. Author of chapter 4 "Design Concepts and Master Planning" for ASCE Manual of Engineering Practice No. 77, *Design and Construction of Urban Stormwater Management System*.

Big Thompson River Flood. Served as Special Consultant to Governor Richard Lamm, for rehabilitation of the Big Thompson Canyon. Duties included technical analysis and coordination of all state agencies and FEMA efforts following the 1976 flood in which 140 people lost their lives.

Union Avenue Dam. Responsible for retrofit of U.S. Army Corps of Engineers dam on South Platte River in Englewood, Colorado to safeguard recreational boaters following two separate drowning incidents. Responsible engineer for hydraulic laboratory model tests at the U.S. Bureau of Reclamation Denver Federal Center and preliminary hydraulic design of retrofit improvements.

Long Draw Reservoir. Responsible for design spillway flood 86-foot-high dam spillway on tributary on Cache La Poudre River in Larimer County, Colorado adjacent to Rocky Mountain National Park.

Sisters of Charity Flood Damage. Served as investigative engineer for subservient landowner who suffered damages caused by upstream channel blockage by the Sisters of Charity Medical Center in Pueblo, Colorado. Investigation included hydrology, hydraulics, and the comparison of the natural flow of water against the man-made course of water flow.

Denver Metro Area Flood Control. Engineer on hydrology and preliminary design of 40 miles of South Platte River corridor through Denver for the Urban Drainage & Flood Control District, 1983-1985. Prepared six-county drainage criteria manual in 1967-69 for Regional Council of Governments.

Prehistoric Surface and Subsurface Drainage. 1994 to present field research on Inca drainage design at Machu Picchu in Peru. Findings published by the American Society of Civil Engineers.

Arvada Urban Drainage and Flood Control. Engineer and hydrologist on preliminary design of 13 miles of flood-prone streams in Ralston Creek Basin of the City of Arvada, Colorado and 1991 report on flood hydrology of Van Bibber Creek and U.S. Army Corps of Engineers.

Lena Gulch Urban Drainage. Supervision of resident engineering for municipal construction of flood channel in Wheat Ridge, Colorado, through existing urban development.

Hydraulic Engineering. Streamflow measurements, open channel design, stream gaging, Parshall flume design and installation, river loss studies, canal seepage analyses, spillway, outlet structures, bridge and culvert hydraulics, floodplain delineations, and pumping plants.

Colorado Springs Urban Flood Channel. Hydraulic engineer on municipal Cottonwood Creek channelization in Colorado Springs, including lined channels and check dams.

City and County of Denver. Served as expert witness for Denver in regard to condemnation action against property owner to gain right-of-way for Harvard Gulch in southeast Denver.

DIA Airport Gateway Area. Engineer on hydrology, channels, retention storage, and detention storage on 600-acre Parkfield site for discharge into Rocky Mountain Arsenal federal lands (1995-97).

Skyline Urban Renewal Project. Planning, design and construction observations for downtown Denver storm sewer project for the Skyline Urban Renewal Project. Design and specifications for over one hundred curb opening inlets and underground reinforced concrete pipe ranging from 18 to 66 inches with outfall to Cherry Creek near Larimer Street. Design included rooftop ponding for all buildings in project area and plazas and parks.

Downtown Pueblo. Project manager for study of downtown Pueblo drainage basin as it affects storm drainage and flood control facilities for the Historic Arkansas Rehabilitation Project.

Aspen Music School. Project manager for Keno Gulch mudflow and damage to the Aspen Music School in 1996 and 1997. Evaluated drainage from the Aspen ski mountain as to effect of lubrication on mudflow.

Adams County Commissioners, 1996 Drownings. Consultant to Adams County Commissioners and Parks Department on retrofit of drainage structure in Lower Clear Creek. Analyzed hydraulic turbulence and reverse roller in regard to public health, safety and welfare following two July 1996 drownings. Advised the Colorado Department of Transportation on retrofit design. The estate of the deceased filed notice of lawsuit.

Del Norte, Colorado. Engineer for town of Del Norte in the San Luis Valley for master planning of the storm design and flood control system for the town. Work also includes water system and sewer system.

EPA vs. UDFCD. Investigative engineer and expert witness for Urban Drainage and Flood Control District in a case before a Federal Hearing Officer relative to hydrology and drainage of Coal Creek and the Town of Lafayette, Colorado.

Groundwater

Building Foundation Drainage. Analysis of subsurface building dewatering with perimeter drains for AAA Waterproofing of Denver. Expert testimony for Front Range housing developers and builders on adequacy of construction in 2001-2003.

Winter Park West Wellfield. Exploration, groundwater hydrology, well design, and construction, testing of seven producing wells from high mountain bedrock aquifer from 1966 to 1983.

Surface and Groundwater Engineering on Rio Grande Compact. Responsibility for surface and groundwater studies in a dispute between Conejos River and Rio Grande water users over compact interpretations and water use. Testified as expert witness in Division 3 Water Court in 1979.

Nontributary Groundwater. Study and testimony in water court for adjudication of nontributary mountain water well near Alma, Colorado for Adolph Coors Company.

Surface and Groundwater Engineering for *Angel Fire vs. C.S. Cattle Company and Philmont Scout Ranch.* Planning and design of surface and groundwater engineering studies for dispute over well use by large out-of-state developers on Canadian River basin of New Mexico. Analysis of injury to vested water rights. Testified as expert witness in Raton, New Mexico, District Court.

Hydrology

Texas vs. New Mexico, U.S. Supreme Court. Consultant to Special Master in interstate dispute over stream losses, evaporation, consumptive use, well pumping, diversions, groundwater modeling, and state line deliveries. Prepared findings and recommendations for settlement decree, and recommended monetary payment in lieu of water to make up past shortages.

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Independence Pass Erosion Control. Responsible engineer for hydrology, runoff, erosion control, and corrective works for 12,000-foot high Independence Pass Highway 82 near Aspen, Colorado.

Adolph Coors Company. Water supply engineering, 1963 to the present, including water rights engineering, water rights purchase recommendations, groundwater investigations, appraisals, expert testimony, and preparation of water augmentation plans, groundwater monitoring and studies, deep well design and supervision, design and construction of dams. Long-range planning and industrial water supply management including study of springs and seeps and preparation of exhibits and testimony.

Hydrologic Engineering. Prepared detailed hydrology studies and historic irrigation depletion analyses for numerous change-in-point-of-diversion lawsuits and augmentation plans including Adolph Coors Company, Arvada, Northglenn, Vail West Water and Sanitation District, Snowmass Water and Sanitation District and Battlement Mesa (Exxon).

Southeastern Water Conservancy District. Surface and groundwater engineering studies and consultation, 1974 to 1992 on 64 hydrologic assignments. Expert witness services in Division 2 Water Court. Prepared technical research and assisted in brief preparation with Mr. Charles Beise on Bessemer Ditch pollution suit referred directly to Colorado Supreme Court from Federal Court of claims.

Principal Engineer for South Platte River Greenway Through Denver. Planning, hydrology and engineering for ten-mile-long linear park development through Denver. Establishment of scope of project in 1972. Planning, design, and construction each year through 1987.

Hydrology Design and Operation of Parfet Clay Pit Landfill for Adolph Coors Company. Engineering studies and evaluation of industrial waste landfill. Development of operational plan. Presentation of engineering testimony before regulatory body for permit. Included lining, underdrains, and operational restrictions. Handled landfill addition in 1985.

Rocky Flats Nuclear Weapons Plant. Hydrology, hydraulic engineering, and planning for surface water management. Project manager for storm drainage and flood control master planning, 1990-92. Detailed studies in Coal Creek.

Prehistoric Hydrology. Eleven-year research program at Mesa Verde National Park on Anasazi hydrology and water handling. Results published by the American Public Works Association in 2003.

Mines

Uranium Mine and Mill Engineering. Supervision of surface hydrology, groundwater and water engineering services for Cyprus Mines at Cañon City, Colorado; Urangesellschaft, USA Mine at Baggs, Wyoming; and Utah International Mine in Wyoming. Planning, design and supervision of groundwater field testing, baseline hydrology and water supply analysis, mill-tailing leachate evaluation, dam failure analysis, dewatering of pit, effluent treatment, computer model studies of groundwater drawdown, reclamation and solute transport modeling. Cyprus Mines engineering included five separate aquifers in pit area, extensive permit application work with agencies, and responsibility for preparing environmental impact statement for Nuclear Regulatory Agency.

Mine Groundwater Pump Test. Pumping test and evaluation in London Mine in 1990-91 for Coors to define bedrock aquifer characteristics at London Fault and mine water yield from over 100 seepage points. Supervised long-term monitoring of mine seepage.

Recreation

Denver Botanic Gardens. Served as hydraulic and water feature engineer for Denver Botanic Gardens for engineering planning and design of fountains, waterways, and pumpback facilities. Work also included deep wells for make-up water.

Estes Park, Colorado River Corridor. Provided project management and engineering on channelization, fountains and streambank features under the direction of landscape architect.

Confluence Park, Denver. Project Manager for planning, design, and construction of Confluence Park in the city of Denver including one mile of stream improvements and trails. Confluence Park is the focal point of the Denver Greenway.

Adams County Fairground Water Tank. Responsible for design and construction of 130-foot elevated water tank at Adams County Fairgrounds.

River Erosion, South Platte River. Field hydrographic measurements of South Platte River degradation in Adams County for preliminary design of corrective measures to protect utilities, bridges, and riverbanks. Principal-in-charge for master planning.

Wastewater and Pollution Control

Battlement Mesa Wastewater Treatment. Project manager for planning, design, shallow groundwater wells, and construction inspection for modification of Exxon sewage treatment plant at Battlement Mesa. Design changed plant from high-energy consumption extended aeration process to aerated lagoon process. Construction cost recovered by owner in 18 months via cost savings on power, labor, and monitoring. Applied for and obtained all regulatory approvals.

Muskegon County Land Treatment. Responsible engineer for Muskegon County Development Council to study and recommend sewage treatment process for metro area on east shore of Lake Michigan. County implemented Wright's recommendations to construct largest system in U.S. with aerated lagoons and 8000 acres of corn. County received commendation letter from President Nixon.

Ski Area Sewage Treatment. Project manager for planning design and construction of wastewater treatment facilities for Mt. Werner ski area, Colorado. Consultant on sewage treatment for East Fork San Juan ski area involving conventional and snowmaking technologies.

Colorado National Bank. Appraiser for Trust Department of CNB for South Park water rights to settle estate and to advise on sale to municipality. Out of three water right appraisers retained over one year period, the Wright Water Engineers' appraisal was used as a basis for settlement and sale purposes.

Water Rights

Denver Archdiocese. Water rights, irrigation, drainage and groundwater studies for Mount Olivet cemetery from 1989 to present.

Regis-Maryvale. Engineer for Father Ralph Houlihan, S.J. on 700-acre tract at Winter Park on water rights, augmentation plan, and groundwater monitoring, drainage, and annexation issues 1984 to 1995.

Irrigation Engineering. Prepared detailed studies and historic irrigation depletion analyses for numerous change-in-point-of-diversion lawsuits and augmentation plans including Arvada, Northglenn, Vail Village West Water and Sanitation District, and Snowmass Water and Sanitation District.

Water Supply

Water Supply for Persian Gulf Oil Field. River basin studies, hydrology, water injection, preliminary facility design, economic feasibility, and personal report to British Petroleum in Tehran, Iran for 500 cfs water supply from two rivers and Persian Gulf. Field studies in western Iran in 1972.

Water Supply for Colony Shale Oil Project. Analysis of water supplies, 1963 to 1983, including water right applications, historic irrigation burden, due diligence engineering, river transit loss studies, expert testimony, and groundwater development and planning. Continued on project for successful oil companies through present.

OTHER EXPERIENCE

Managing Partner, Wright-McLaughlin Engineers, 1964-1982. Firm dissolved in 1982.

Partner, Wheeler and Wright, 1959-1961. Partnership in consulting engineering firm practicing in the field of hydrology and water supply. Served as associate to Mr. Wheeler in 1958-1959.

Hydraulic Engineer, U.S. Bureau of Reclamation, 1957-1958. Hydrology and hydraulic engineering in Project Investigation Branch of Chief Engineer's Office on sedimentation, water surface profiles, Rio Grande channelization, and flood studies. Participation in USBR publication *Design of Small Dams*. Received Secretary of Interior Gold Medal for Valor for action on the Rio Grande in New Mexico.

Research Associate, Groundwater, University of Wisconsin, 1956. Electric analog and hydraulic modeling and report on toxic groundwater pollution of Wisconsin River aquifer by paper industry. Results published by American Society of Civil Engineers.

Arabian American Oil Company, 1951-1955. Construction engineer in Saudi Arabia on housing, utilities, oil pipeline under Persian Gulf to Bahrien Island, Trans-Arabian Pipeline cathodic protection, and overland pipeline from Ras Tanura to Ras El Mishaab. Authored *Civil Engineering* magazine article in 1956 on cathodic protection of Trans-Arabian Pipeline.

PROFESSIONAL & HONORARY SOCIETIES

American Society of Civil Engineers, Fellow

- Hydraulics Group, Colorado Section; Chairman-1962
- Cooperation with Local Section, Sanitary/Hydraulics Division; Chairman, 1967
- Surface Water Hydrology Committee, Hydraulics Division; Chairman, 1968-1969
- Finance Committee, Hydraulics Division Conference, Madison, Wisconsin; Chairman, 1956
- Executive Committee of Hydraulics Division, 1971-1973; Chairman, 1973
- Urban Hydrology Research Council, 1970-present

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- Engineering Foundation Research Conference, Urban Water Resources Mgmt. Co-chairman 1970
- Task Committee on Design of Detention Outlet Works, 1983-1984
- Storm Drainage Manual, Author of Conceptual Design Chapter, 1983-1992
- Machu Picchu: A Civil Engineering Marvel, Author, 2000

Association of State Dam Safety Officials

- Keynote lecture, Phoenix, Arizona, 2004.

American Consulting Engineers Council, Member

- National Director, 1966-1968
- President, 1969-1970 Consulting Engineers Council of Colorado
- Certified Consulting Engineer

American Water Works Association

- Regional Conference Technical Program Chairman, 1966
- National Water Rights Committee, Chairman, 1982 to present
- Editor, "Water Rights of the Fifty States and Territories" 1988
- Editor; "Water Rights of the Eastern States" 1998

Rocky Mountain Center on the Environment Director, 1969-1970

- President, 1971-1973

National Society of Professional Engineers, Member

U.S. Committee on Irrigation, Drainage and Flood Control

- Executive Committee, 1978-1985

American Water Foundation, Founding Member, Board of Directors

Explorers Club - Fellow 1983 to present

- Past Chairman, Rocky Mountain Chapter

Wright Paleohydrological Institute-President and Board Member, 1998 to present

Director, Machu Picchu Hydrological Survey 1994 to present

Director, Mesa Verde Paleohydrological Survey 1995 to present

American Society of Agricultural Engineers

Society for American Archaeology

AWARDS

American Society of Civil Engineers, Lifetime Achievement Award, 2005

American Council of Engineering Companies of Colorado, Orley Phillips Award, May 2004

American Council of Engineering Companies of Colorado, George Washington Award, May 2002

University of Wisconsin School of Engineering, Distinguished Service Award, October 2002

Universidad Nacional De Ingenieria, Profesor Honoraria, Lima, Peru, 2002

South Platte River Greenway, Friend of the River Award, 2001.

American Society of Civil Engineers, History and Heritage Award for Original Research on Water Supply of Machu Picchu, 2001

American Ethics in Business Award, 1999

Colorado Ethics in Business Award, 1996

Colorado Historical Society, Stephen Hart Award, 1996

National Ski Patrol, Purple Star, Lifesaving

U.S. Department of Interior, Gold Metal for Valor

National Society of Professional Engineers, Dam Safety Award

The American National Red Cross, Certificate of Merit, Lifesaving