

**Education**

M.S., Geological and Civil  
Engineering, University of Utah,  
1963

B.A., Geology, University of  
Colorado, 1959

**Registrations**

Professional Engineer: Arizona,  
Colorado, New Mexico, Utah,  
and Wyoming

Professional Geologist:  
Wyoming

**Publications**

Hepworth, R.C., Case Study of  
Negative Skin Friction, ASCE  
Annual Meeting, Dallas, TX, Oct.  
1993.

Hepworth, R.C. and Langfelder,  
J., Settlement and Repairs to  
Cement Plant in Central Utah,  
2nd International Conference on  
Case Histories in Geotechnical  
Engineering, June 1988.

Hepworth, R.C., A Case Study in  
Hand-Dug Caissons, International  
Conference on Deep  
Foundations, Beijing, China,  
September 1986.

Jubenville, D.M. and Hepworth,  
R.C., Drilled Pier Foundations in  
Shale, Denver, Colorado Area,  
Drilled Piers and Caissons  
Conference, American Society of  
Civil Engineers, October 1981.

Hepworth, R.C., Design and  
Construction on Swelling Soils,  
Denver, Colorado, Conference on  
Swelling Soils, Kanpur, India,  
1977.

Hepworth, R.C., Heaving Subgrade  
of Highways Constructed on  
Mancos Shale, Transactions,  
Society of Mining Engineers, June  
1965.

Mr. Hepworth is a principal of the firm and Senior Project Manager in the Parker office. Mr. Hepworth has over 40 years of experience in geotechnical and construction materials testing projects. Projects include: expansive soil problems, building foundation studies, dewatering and stabilization of soft soil deposits, Phase I site assessments, dam safety inspection and dam design, seismic risk assessment, engineering geology reconnaissance and overall quality assurance. He also has been an instructor in the Civil Engineering Dept. at the University of Colorado at Denver.

During most of his professional career, Mr. Hepworth has been concerned with the effects of expansive soils. He began with studies of roads in Utah built on the Mancos Shale. In Colorado he has been involved with the identification, testing, analysis and constructing on expansive soils and bedrock found in the Front Range. He is a member of the Expansive Soil Research Center at UCD and participated in Jefferson County's development of new subdivision regulations for the steeply dipping bedrock zone. He has authored several articles on construction in expansive soils.

Mr. Hepworth has performed several hundred investigations of distressed buildings that include schools, residences, commercial and industrial buildings. These studies involved field investigations, laboratory testing and remedial recommendations. He has found that each study has its unique aspects and remedial requirements. Laboratory testing has included routine tests as well as X-ray and thermal scans of clay minerals, soil suction and sulfate/lime reactions. Some of the repair treatment included: new foundation systems, chemical treatment of slab subgrade, underdrains, interceptor drains and new site grading. One significant project was the remediation of a cement plant where \$21 million was spent over a period of 8 years to underpin the structures.

**Membership in Organizations:**

Consulting Engineers Council Colorado (Past President)  
American Consulting Engineers Council  
Colorado Engineering Council (Past Pres)  
Association of Engineering Geologists  
Geological Society of America  
Engineering Advisory Council, UCD  
American Society of Civil Engineers  
Earthquake Engineering Research Institute  
Association of Drilled Shaft Contractors  
ASFE (Firms practicing in the Geosciences)  
Expansive Soil Research Center, UCD  
Colorado Natural Hazards Mitigation Council