

H. James (Jim) Royston, MS, PE

Civil/Structural Engineering

Mr. Royston has more than 30 years of forensic engineering experience specializing in the analysis of structural, architectural, and construction failures and performance problems. As founder and president of Western Engineering & Research Corporation, he leads a multidisciplinary team of professionals and investigators, providing a broad range of services to our clients. Mr. Royston's professional success is based on developing a sound understanding of each project based on systematic site investigations and testing, presentation of findings in detailed, understandable reports, and solid, fact-based testimony at deposition and trial. Mr. Royston has been qualified as an expert by numerous courts of law throughout the United States, and has served as an arbitrator, an umpire, and a mediator.

CONSTRUCTION FAILURE, PERSONAL INJURY & ACCIDENT RECONSTRUCTION

As president of Western Engineering, Mr. Royston provides leadership and oversight of all electrical, mechanical, civil, structural and metallurgical engineering services, as well as fire investigation services. He has extensive experience with building codes, OSHA regulations, and ADA standards, which he applies to evaluations of buildings and structures relative to performance problems, claims, accidents and failures.

Mr. Royston specializes in the analysis of structural, architectural, and construction failures and performance problems. He is experienced with evaluating construction quality and conformance with contract documents and building code provisions. Mr. Royston has evaluated damage to numerous fire and explosion-damaged concrete, masonry, timber and steel structures. Mr. Royston conducts engineering investigations of construction accidents and various types of personal injury accidents. Mr. Royston has designed and conducted laboratory and field tests on a wide range of structures, mechanical systems, building components, and materials throughout the United States and Canada.

WORK HISTORY

Principal Engineer & President, Western Engineering & Research Corporation, 1997 to present; President, Analytical Engineering, Inc., 1990-1997; Senior Consultant, Knott Laboratory, 1983-1990; Civil Engineering Manager, Albert Knott & Associates, 1981-1983; Research Structural Engineer, Custodis Construction Company division of Research-Cottrell, 1978-1981.

PUBLICATIONS

Kevin L. Rens, H. James Royston, Inspection, Rating, and Repair of a Residential Building Envelope Detail, Proceedings of the Fifth Congress on Forensic Engineering, ASCE, 2009.

AFFILIATIONS

Mr. Royston is currently a member of:

National Academy of Forensic Engineers (NAFE)	Colorado Association of Geotechnical Engineers (CAGE)
International Code Council (ICC)	Structural Engineers Association of Colorado (SEAC)
American Concrete Institute (ACI)	National Institute of Building Sciences (NIBS)
American Society of Civil Engineers (ASCE)	National Society of Professional Engineers (NSPE)
ASTM (American Society for Testing and Materials)	National Fire Protection Association (NFPA)
Architectural Engineering Institute (AEI)	Tau Beta Pi (ΤΒΠ - Engineering Honorary)
American Institute of Steel Construction (AISC)	

Mr. Royston is a Diplomat Forensic Engineer by the Council of Engineering & Scientific Specialty Boards. Mr. Royston was appointed by the Colorado State Board of Licensure for Architects, Professional Engineers and Land Surveyors to the Forensic Engineering Task Force. He has served on the Colorado Society for Natural Hazards Research (President). He has retired memberships with International Conference of Building Officials, American National Standards Institute (Corporate Representative), Engineered Wood Association, Society for Experimental Stress Analysis (Society for Experimental Mechanics), American Iron and Steel Institute, and Illuminating Engineering Society of North America. He has served on various Civic and Non-Profit Boards and Committees.



Practice Areas

- Structural Engineering
- Civil Engineering
- Architectural Engineering

Contact Information

hroyston@werc.com
303-757-4000
800-303-9800

Credentials

- Licensed Professional Engineer in CO, ID, KS, LA, MI, MT, NE, NM, SD, UT, WA and WY
- NCEES Council Record 23510
- MS, Civil Engineering, Structural Specialty, University of Wyoming, 1978
- BA, Education, Honors College, Michigan State University, 1974
- Postgraduate study, University of Wyoming, Engineering Mechanics, 1979
- Lectures in numerous classes and seminars regarding structural design; building systems; slips & falls; engineering mechanics; building codes; building loads; concrete; forensic engineering; evidence preservation; engineering writing; failure analysis; engineering ethics; plumbing failure analysis; forensic photography; and other related topics.

2013.08.20