H. James (Jim) Royston, MS, PE

Civil/Structural Engineering

WESTERN
Engineering & Research Corporation
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Mr. Royston, president of Western Engineering & Research Corporation, specializes in the analysis of structural, architectural and construction failures and performance problems. He has a reputation throughout the western United States for sound judgment and thorough reporting. Mr. Royston has provided expert testimony in numerous courts of law throughout the United States, and has served as an umpire and a mediator.

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, Research-Cottrell, 1978-1981

Mr. Royston has lectured on Failure Analysis, Evidence Preservation, Engineering Mechanics, Building Codes, Building Loads and other related topics.

CONSTRUCTION FAILURE & ACCIDENT RECONSTRUCTION

Mr. Royston provides oversight and coordination of all electrical, mechanical, civil, structural, architectural, and metallurgical engineering services relative to failures, accidents, claims, and matters in litigation. He developed and oversees the plumbing failure analysis group that specializes in the evaluation of failed valves, hoses and pipes.

Mr. Royston specializes in the analysis of structural, architectural and construction failures and performance problems throughout the western United States. He has extensive experience 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 slip, trip and fall accidents on stairways, ladders, and ramps. 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.

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

National Academy of Forensic Engineers (NAFE), (Senior Member), Board Certified Diplomat of the Council of Engineering and Scientific Specialty Boards (CESB) through NAFE. Mr. Royston is currently a member of:

- International Code Council (Prof. Member)
- American Concrete Institute
- American Society of Civil Engineers
- American Society of Testing and Materials
- Architectural Engineering Institute
- Colorado Association of Geotechnical Engineers
- Structural Engineers Association of Colorado
- National Institute of Building Sciences
- National Society of Professional Engineers
- Tau Beta Pi (Engineering Honorary)

Mr. Royston was appointed by the Colorado PE Board to the Forensic Engineering Task Force. He has served on the Colorado Society for Natural Hazards Research (President), American National Standards Institute, Society for Experimental Stress Analysis (Society for Experimental Mechanics), Illuminating Engineering Society of North America, as well as on various Civic and Non-Profit Boards and Committees.

Practice Areas

- Structural Engineering
- Architectural Engineering

Contact Information

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Credentials

- Licensed Professional Engineer in CO, ID, KS, LA, MT, NE, NM, UT, WY
- NCEES Council Record 23510
- MS, Civil Engineering, University of Wyoming, 1978
- BA, Education, Honors College, Michigan State University, 1974
- Postgraduate doctorate study, University of Wyoming, Engineering Mechanics, 1979
- Attended numerous classes and seminars regarding structural design, building systems, slips & falls, building codes, concrete, timber & steel structures, forensic engineering, failure analysis, engineering ethics, business management, and plumbing products.