

HARVEY HAYNES

Principal

Consulting Concrete Engineer

EXPERIENCE

In 1982, Mr. Haynes established Haynes & Associates, LLC to provide concrete consulting services to the construction industry, public agencies, and legal firms. His office specializes in investigating concrete problems.

Mr. Haynes has focused his career of over fifty years on the study of concrete as a construction material. He conducted research on concrete for 15 years at the Navy's Civil Engineering Laboratory. As an authority on concrete, he taught a graduate level course at the University of California at Berkeley. As an author, he published over 75 technical papers on concrete, and produced a video on "Avoiding Cracks in Concrete Slabs-on-Grade". For the past 37 years, he has been a consultant in private practice.

Specific work experience:

- Evaluated sulfate attack, alkali silica reaction, reinforcement corrosion, fire damage, and other deterioration mechanisms to concrete.
- Investigated the cause of cracking in warehouse slabs, airport aprons, tilt-up walls, glass fiber reinforced concrete facing panels, and other elements.
- Investigated overlay delamination in bridge decks, water tanks, terrazzo systems and others.
- Investigated moisture-vapor emission problems in concrete slabs.
- Developed roller compacted concrete mixtures for a dam and heavy-duty parking lot.
- Determined durability of concrete in marine environments and in municipal landfill leachates.
- Investigated distress to prestressed concrete structures.

- Conducted condition surveys of buildings, piers and dams for material deterioration and steel reinforcement corrosion.
- Wrote quality control program for high strength concrete (10,000 psi).
- Wrote concrete specifications for hot weather placement, repairs, warehouse slabs, and other unusual conditions.
- Recommended repair materials and design schemes for distressed concrete structures.
- Testified in court as expert witness.

PROFESSIONAL STANDING

- Registered Professional Civil Engineer in California, No. C21215.
- Fellow of American Concrete Institute (ACI).
- ACI, President of Northern California and Western Nevada Chapter, 1992, and Director 1987-1990.
- ACI Committee 357 on Offshore Concrete Structures, Past Chairman.
- ACI Committees: Member, 201 on Durability, 224 on Cracking, 332 on Residential Concrete, and E703 on Concrete Construction Practices, Assoc. Member 302 Construction of Concrete Floors.
- Structural Engineers Association of Northern California, Member
- American Society of Civil Engineers, Member
- The Scientific Research Society of America, Sigma Xi, Member
- Lecturer, University of California at Berkeley, Department of Civil Engineering, 1989

EDUCATION

- University of Washington, Seattle, WA, M.S. in Civil Engineering, 1966
- Clarkson University, Potsdam, NY, B.S. in Civil Engineering, 1965

CONSULTING ENGINEERS

2 MOYER PLACE
OAKLAND, CALIFORNIA 94611-3137
510/655-3134 FAX 510/655-3448
harvey@haynesassociates.net