

## CUURICULUM VITAE

### Henry T. Fairbairn, P.E.

*Civil and Structural Engineer*

#### PROFESSIONAL EXPERTISE:

FIELD: Structural Design of new buildings, seismic evaluation of existing buildings, structural forensic/causation studies and reports.

FOCUS: Structural Evaluation, Wood frame, Unreinforced Masonry, Reinforced Concrete, Steel.

#### SPECIAL EXPERTISE:

- Structural and seismic evaluation and upgrading of existing commercial and residential buildings. PML studies. Dynamic analysis of building structures and mechanical systems.
- General structural design of new wood frame, masonry, steel frame, post tensioned concrete, concrete flat plate, and tilt-up concrete buildings.
- Retaining walls, tiebacks, shoring, and pier and grade beam foundations.

#### LICENSES AND CERTIFICATION:

- Registered Professional Engineer, Calif. PE-# 47266
- Registered Professional Engineer, Oregon PE-# 19364
- State of California , *registered disaster service worker #67049*

#### PROFESSIONAL AFFILIATIONS:

- Structural Engineer's Association of Northern California (1990)
- Earthquake Engineering Research Institute
- American Society of Civil Engineers (ASCE)
- American Concrete Institute

#### EDUCATION:

- B.S. Architectural Engineering, Cal Poly State University, San Luis Obispo, CA 1986
- Construction Management, California State University, Chico CA, 1983

#### PROFESSIONAL HISTORY:

1992 –PRESENT President, **SDC/Structural Engineering**, Inc. Alameda CA. Prepared structural studies, plans, calculations, site inspections, managed projects and presided over business operations for a 3-4 person consulting engineering firm. Projects ranged from custom residences, commercial buildings and multi story apartment buildings. Soft story building evaluations and retrofit. Expert witness, case preparation, testimony.

1991-1992 **Harris Consulting Group**, Oakland, CA Project Manager/Engineer . Project manager and engineer for a variety of building types: steel, concrete, and wood frame. Prepared a hazardous building inventory for the City of Antioch, CA. Seismic upgrade of hotels, churches, and offices. Fire damage evaluations of 90 residential foundations damaged in the 1992 Oakland Hills fire.

1988-1990 **IDS Consultants**, Concord, CA Project Engineer. Structural design and engineering calculations for custom residences and commercial buildings. Prepared structural surveys on earthquake damaged apartment buildings in San Francisco following the 1989 Loma Prieta earthquake.

1986-1988      **Vincent Kevin Kelly and Associates**, Santa Monica, CA. Staff engineer/structural designer. Prepared calculations for numerous projects from additions to multi story wood framed apartment buildings over 2 way reinforced concrete flat plate parking structures.