



PERSONNEL QUALIFICATIONS

Duane L. N. Lee | Principal



EDUCATION

- University of Hawaii
 - Bachelor of Science, Civil Engineering, 1969
 - Master of Science, Civil Engineering, 1971
- University of Michigan
 - Doctor of Philosophy, Civil Engineering, 1976

PRACTICE AREAS

- Concrete Deterioration
- Construction Claims Evaluation
- Failure Investigation
- Fire Damage Investigation
- Leakage Investigation
- Litigation Consulting
- Repair and Rehabilitation Design
- Roofing and Waterproofing
- Structural Evaluation

REGISTRATIONS

- Structural Engineer in HI

TECHNICAL COMMITTEES

- CCPI - Technical Committee

CONTACT

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EXPERIENCE

Duane Lee joined WJE in 1980. Between 1985 and 2005, he served as unit manager of WJE's Hawaii branch. He has been involved with numerous projects associated with the investigation, evaluation, and repair of existing structures. This has included concerns associated with water infiltration, deterioration, and strength for many different building materials and conditions. Dr. Lee's projects have included stadiums, wharves, low- and high-rise condominiums, hotels, warehouses, parking garages, hospitals, schools, and residential structures.

Between 1976 and 1980, Dr. Lee served as a design structural engineer for Alfred A. Yee & Associates, Inc. and Richard M. Sato & Associates, Inc. He has conducted thesis research on the camber and deflection characteristics of prestressed concrete beams manufactured with Hawaiian aggregates. Dr. Lee's dissertation was based on the study of original and repaired reinforced concrete beam-column subassemblages subjected to earthquake-type loading.

REPRESENTATIVE PROJECTS

Fire Damage Investigation

- Al Phillips the Cleaners, Inc. - Honolulu, HI: Assessment and repairs
- Building 200, Puuloa Firing Range - Ewa Beach, HI: Assessment and repairs

Leakage Investigation

- Kalanimoku Building - Honolulu, HI: Plaza deck repairs
- Topa Financial Center - Honolulu, HI: Window and marble facade repairs

Repair and Rehabilitation Design

- City Center - Honolulu, HI: Concrete facade repairs and repainting
- Diamond Head Beach Hotel - Honolulu, HI: Concrete facade repairs and lanai waterproofing
- Marco Polo Condominium - Honolulu, HI: Recreation area restoration and waterproofing
- Waikiki Galleria Tower - Honolulu, HI: Parking deck restoration and waterproofing
- Yacht Harbor Towers - Honolulu, HI: Exterior concrete repairs and repainting

Roofing and Waterproofing

- Nauru Tower - Honolulu, HI: Design services for new construction
- Waikiki Landmark - Honolulu, HI: Design services for new construction

Structural Evaluation

- Aloha Stadium - Honolulu, HI: Planning study; corrosion and structural assessment
- Castle and Cooke Community Center - Honolulu, HI: Post-tensioned strands deterioration and repairs
- Major Retail Chain Parking Structure - Honolulu, HI: Tri-tees serviceability assessment

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- American Council of Engineering Consultants (ACEC)
- American Society of Civil Engineers (ASCE)
- Cement and Concrete Products Institute of Hawaii (CCPI)
- Precast/Prestressed Concrete Institute (PCI)
- Structural Engineers Association of Hawaii (SEAOH), past president