



PASHA AMELI, PH.D., P.E.

ASSOCIATE DIRECTOR

BERKELEY RESEARCH GROUP

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PROFESSIONAL HISTORY

- Berkeley Research Group 2021-
- Exponent 2018-2021
- The Vertex Companies 2013-2018

EDUCATION

- Ph.D., Civil and Environmental Engineering, University of California, Irvine, 2013
Thesis: Alteration of Fractured Rocks Due to Coupled Chemical and Mechanical Processes: High-Resolution Simulations and Experimental Observations
- M.S., Civil and Environmental Engineering, University of California, Irvine, 2010
- B.S., Civil and Structural Engineering, Sharif University of Technology, 2009

LICENSES AND CERTIFICATIONS

- Professional Engineer (PE): California
- Xactimate Certification #1532206

PROFESSIONAL ASSOCIATIONS

- Society of Construction Law North America – Board Member
- ABA Forum on Construction Law – Division 8 and Division 1 Committee Member
- AAECI

LANGUAGES

- Fluent Farsi
- Fluent Turkish

Dr. Ameli is an associate Director of Berkeley Research Group (BRG) International Construction Practice. He is a licensed Professional Civil Engineer with 10 years of experience in construction advisory and project management, forensic construction claim investigations, quantification of damages, estimation of cost to repair, and internal audits. He has extensive experience in preparation of construction repair costs based on industry-standard pricing resources and market research in conjunction with liability repairs and property claims, loss of productivity, and analysis of labor and material costs fluctuations as a result of catastrophic events such as hurricanes and wildland fires.

He has been involved in commercial, residential, and industrial projects, including sport arenas, performing arts centers, solar farms, hospitals, multi-family high-rise, single-family homes, residential condominiums, class A office buildings, hotels, elementary schools, energy savings performance contracts, transit centers, and light rail transits.

His graduate research study was supported by United States Department of Energy, Office of Science, Basic Energy Sciences and was focused on the study and numerical modeling of underground fluid flow, with focus on flow through fractured rocks and porous media. He has expertise in analysis and design of stormwater conveyance systems, 3D modeling of flooding and flood hazard evaluation, and investigation of the effects of wildland fires on hydrological characteristics of watersheds.

As an Expert Witness, he has written numerous expert reports that led to successful settlements. He has testified in a trial, arbitration hearings on reasonableness and quantification of damages.

He has been a member of the board of directors of the Society of Construction Law, North America since 2020.

REPRESENTATIVE PROJECT EXPERIENCE

Commercial and Industrial Projects

- Liquified Natural Gas Plant, Western Australia – Preparation of rebuttals to different \$60M+ claims for delay and loss of productivity damages subcontractor (\$29B+ contract).
- Insulation and Commercial Roofing Manufacturing Facility, McPherson, Kansas – Quantification of damages incurred by the general contractor due to the COVID-19 pandemic, cost escalation, quantity growth, and disputed change orders (+\$100M EPC contract).

- Light Rail Expansion, Canada – Prepared claim on behalf of train manufacturer for extra work costs (\$2.1B contract). Rebutted contractor's counter claim for liquidated damages and repair costs.
- Sport Arena, San Francisco, California – Quantification of construction cost overrun and allocation of responsibility of damages.
- Sport Arena, Dallas, TX – Provided project advisory and oversight during discovery, planning & testing, and mitigation of damages to curtain wall system and exterior cladding (\$8M in damages).
- Transit Center, San Francisco, CA – Estimation of cost to repair of multiple hypothetical structural repair scenarios at a multi-level transit center.
- University, Houston, TX – Analyzed financial proforma of an energy savings performance contract utilizing stipulated energy savings and financing fees.
- University, Orangeburg, SC – Provided project cost advisory on construction of a student center expansion (\$24M contract).
- University, San Diego, CA – Assessment of reasonableness of costs and quantification of loss of productivity associated with mold remediation at a student housing building.
- Solar Farm, Southern California – Quantification of cost overrun due to inefficiencies related to wire management of solar modules.
- Asphalt Paving Repair, Shopping Center, MA – Estimated the cost to repair the alleged damages to asphalt paving of a shopping center.
- Performing Arts Center, Santa Monica, CA – Quantification of damages due to the termination of the general contractor.
- Hospital, Miles City, MT – Project advisory and oversight during initial investigations, negotiations, and remediation activities associated with microbial growth at exterior walls (\$11M claim).
- Class A Office Building, Hackensack, NJ – Estimation of cost to demolish and rebuild a 10,000-square-foot office building due to damages caused by adjacent construction.
- Hotels and Resorts, Houston, TX – Performed site investigations, construction oversight and quantification of costs to repair the damages of multiple hotels and resort amenities after the hurricane Harvey.
- High-Voltage Electric Transmission Towers, Northern California – Managed (design, permitting and implementation) of replacement of multiple 115KV transmission towers.
- Public Project, Escondido, CA – Ratification of multiple subcontracts post termination of the general contractor (Surety Consultant).
- Hydrogeological Characteristics of a Dam, East Asia – Analyzed complex permeability test datasets to locate high-permeable subsurface zones.

Residential Projects

- Multi-Family High-Rise Condominium, Jersey City, NJ – Estimated the cost of repair the damages due to structural and mechanical construction defects (\$100M+ in repairs).
- Multi-Family High-Rise Condominium, Los Angeles, CA – Performed analysis of construction defects, cost of repair, and allocation of damages to responsible parties.
- Multi-Family High-Rise Condominium, Delray Beach, FL – Estimation of cost of repair related to building pressurization, ductwork, air handling units and other HVAC related issues for a 400-unit residential building.
- Three-Story Single-Family Home, Evanston, IL – Site investigation and cost estimation to rebuild a single-family home due to fire damage.

- Multiple Single-Family Homes, Santa Rosa, CA - Quantification of the effects of wildland fires on short-term labor and material cost fluctuations during the reconstruction of high-end single-family homes after Tubbs Fire in 2017.

Expert Witness Appointments & Testimony

- **2022 Confidential Jury Trial (California)** – Prepared an expert report and provided deposition testimony on costs associated with hypothetical structural repair scenarios at a transit center.
- **2022 Jury Trial (California)** – prepared an expert report related to assessment of reasonableness and quantification of loss of productivity during mold remediation and reconstruction activities at a student housing building.
- **2021 Arbitration Proceedings (Massachusetts)** – Prepared an expert report and provided an arbitration hearing testimony related to estimation of cost to repair the alleged construction defects in connection with site improvements of a shopping center.
- **2019 Confidential Arbitration Proceedings (California)** – Prepared an expert report and provided deposition and arbitration hearing testimonies on the reasonableness of the additional costs claimed by the general contractor related to wire management of solar modules.
- **2019 Fairway Terrace Corp. v. 150-170 main street Hackensack Urban Renewal LLC. et al. (New Jersey)**– Prepared an expert report to estimate the cost to remove and replace a class A office building and provided deposition testimony.
- **2018 and 2022 Rialto-Capitol Condominium Association, Inc. v. Baldwin Assets Associates Urban Renewal Company, LLC. et al. (New Jersey)** – Prepared two expert reports and provided two deposition testimonies in an adversarial setting related to the estimated costs to repair various construction defects.
- **2017 Benched Trial (Colorado)** – Prepared an expert report and provided deposition and trial testimony on the reasonableness of the costs associated with water intrusion remediation activities after a heavy rain event.

Speaking Engagements

- Webinar (2022), The Invisible Divide: Domestic and International Arbitration Compared, American Bar Association, Forum on Construction Law
- Webinar (2022), ICDR Young & International: Multi-Party Proceedings in Construction Arbitration, International Center for Dispute Resolution
- Webinar (2020), Striking a Balance: Successfully Integrating Multiple Experts into an Overarching Legal Strategy during Large-Scale Construction Disputes, Society of Construction Law, North America
- Oral Presentation (2019), Avoiding Common Pitfalls in Adjusting Natural Disaster Claims, Claims and Litigation Management Alliance (CLM) Southeast Conference, Orlando, FL
- Oral Presentation (2018), Strategically Using Technology in High Exposure Cases, National Construction Defect Conference, Perrin Conferences, Fort Lauderdale, FL
- Oral Presentation. (2018), Construction Litigation Claims: Dispute Resolution from Cost Standpoint, American Society of Professional Estimators, Portland, OR
- Oral Presentation (2016), Claims Estimating Utilizing Industry Standard Pricing Tools, American Society of Professional Estimators, Oklahoma City, OK

International and Domestic Publications

- Ameli, P. (2012), Micro-Scale Simulation of Fracture Alteration Under Coupled Chemical and Mechanical Processes in Carbonate Cores, American Rock Mechanics, San Francisco, CA
- Ameli, P. (2012), Chemical and Mechanical Alteration of Fractures: Micro-Scale Simulations with Comparison to Experimental Results, American Geophysical Union, San Francisco, CA
- Ameli, P. (2011), Permeability Evolution of Fracture Anhydride Caused by Chemical and Mechanical Alterations, American Geophysical Union, San Francisco, CA
- Ameli, P. (2010), Micromechanical Modeling of the Normal Deformation of Rough-Walled Fractures: The Influence of Local Damage Events on Macroscopic Properties, American Geophysical Union, San Francisco, CA
- Ameli, P. (2010), Numerical Modeling of Deformation of Rough-Walled Fractures due to Normal Stress, Engineering Mechanics Institute, Los Angeles, CA
- Ameli, P., J. E. Elkhoury, J. P. Morris, and R. L. Detwiler (2014), Fracture Permeability Alteration due to Chemical and Mechanical Processes: A Coupled High-Resolution Model, Rock Mechanics and Rock Engineering, 47, 1563 -1573
- Ameli, P., J. E. Elkhoury, and R. L. Detwiler. (2013), High-Resolution Fracture Aperture Mapping Using Optical Profilometry, Water Resources Research, 49, 7126 - 7132
- Ameli, P., (2013), Alteration of Fractured Rocks Due to Coupled Chemical and Mechanical Processes: High-Resolution Simulations and Experimental Observations, Dissertation, University of California, Irvine
- Elkhoury, J. E., Ameli, P., and R. L. Detwiler, (2013), Dissolution and Deformation in Fractured Carbonates Caused by Flow of CO₂-Rich Brine Under Reservoir Conditions, International Journal of Greenhouse Gas Control, 16, S203 - S2