



BIOGRAPHY



*Construction Claims Analysis « CPM Scheduling
Delay Analysis « Productivity Analysis
Forensic Engineering*

TONG ZHAO, PHD, PE, PSP

Director

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Tong Zhao has broad experience in the engineering and construction of infrastructure, industrial, commercial, housing, and environmental projects. Tong has provided consulting services including CPM scheduling, forensic delay analysis, productivity analysis, cost estimating, forensic engineering, claim analysis and damage analysis on domestic and international construction projects, including natural gas power generation facilities, commercial housing/buildings and World Bank funded large scale water diversion tunnels and dams. Tong holds a Ph.D. in Civil Engineering from University of Maryland, College Park, and is a licensed professional engineer in Maryland.

SELECTED PROJECT EXPERIENCE

- Claim analysis for adverse geological conditions during the construction of river diversion tunnels in a \$4.2B World Bank financed multipurpose dam construction project.
- Delay analysis on TBM tunneling in a \$1.5B World Bank financed international water diversion project.
- Project management and dispute resolution to complete a \$50M power generation facility in Virginia.
- Project scheduling in a \$30M public facility project.
- Project scheduling and delay analysis for differing site conditions on a power generation construction project in Japan.
- Damage repair cost estimating due to construction defects and water intrusion on multi-story hotels.
- CPM delay analysis and measured mile study to rebut a \$18M claim in a light rail project.
- CPM delay analysis in a \$80M wastewater treatment plant upgrade project.
- Analysis on loss of productivity in several commercial building construction projects.
- Forensic engineering analysis for a slope failure during the construction of a commercial facility.

SELECTED PUBLICATIONS

- *“Improved Baseline Method to Calculate Lost Construction Productivity,”* ASCE Journal of Construction Engineering and Management, February 2014
- *“Avoiding the Pitfalls in Implementing the Measured Mile Method,”* AACE International Transactions, July 2013
- *“Proving Engineering Productivity Loss,”* AACE International Transactions, July 2012
- Expert Witness: Construction Cases Co-Author *Chapter 10 “Productivity Expert,”* October 2011

AFFILIATIONS American Society of Civil Engineers

LANGUAGES Fluent in English and Chinese

EDUCATION University of Maryland, College Park, Ph.D. in Civil Engineering, 2003
Tsinghua University, M. Engineering in Hydraulic Structure (Construction Mgmt.), 1999
Tsinghua University, B. Engineering in Construction (with Honors), 1996

LICENSES / CERTIFICATIONS

Professional Engineer (P.E.): Maryland
Planning and Scheduling Professional (P.S.P.)