

Guest Research Structural Engineer, NIST

Seif, Mina



NIST
National Institute of
Standards and Technology
U.S. Department of Commerce



Specialties:

- Structural Performance under Fire
- Stability of Structures under Fire Loading
- Structural Stability
- Computational Modeling and Finite Element Analysis

Qualifications & Certifications:

- P.E., 2015, North Carolina
- Ph.D., 2010, CEE, Johns Hopkins University
- M.S., 2010, CEE, Johns Hopkins University
- M.S., 2005, CE, Cairo University
- B.Sc., 2002, CE, Cairo University

Professional Experience:

- 18+ years as Structural Researcher and an Adjunct Faculty

Committees & Memberships:

- AISC Member
- SSRC Member
- SSRC TG06 Committee Chair (2015-2021)
- ASCE Member
- ASCE/SEI Fire Protection Committee

Summary: As a Structural Researcher at the National Fire Research Laboratory (NFRL), at the National Institute of Standards and Technology (NIST), my primary research interests relate to the experimental and computational assessment of structural performance under extreme loads, including modeling the response of structural systems beyond local failure to global collapse, particularly under fire-induced heating. The main goal behind this current research is the development of simplified tools and guides for performance-based design of steel structures at elevated temperatures.

