

Curriculum Vitae

Michael C. Head, PE



Mr. Head has more than 40 years of structural engineering analysis, design and project/construction management experience throughout the United States and Saudi Arabia ranging from the design of new facilities, strengthening, renovation, retrofitting and repair of existing structures in the GMP, Design/Bid and Design/Bid/Build delivery methods and conducting forensic investigations as an expert witness.

Services provided include:

Forensic Engineering and Analysis
Expert Witness
Failure Investigations
Construction Administration Assistance
Property Condition Assessments (PCA's)
Structural Peer Reviews
Building Code Review and Interpretation

Areas of Expertise include:

Structural Design (Concrete, Steel, Foundations, etc.)
Construction Accidents and Defects
Strength Hardening (Hurricane and Tornado)
Stadium/Bleachers Safety Design and Inspection
Wind and Seismic Analysis
Post-Natural Disaster Building Safety Assessments
Historic Preservation

Education

B.Sc. in Civil Engineering - University of Southampton, Southampton, England
M.S. in Structural Engineering - Vanderbilt University, Nashville, TN

Professional Registrations

Professional Engineer (PE) in Alabama, Arkansas, Florida, Georgia, Massachusetts, Mississippi, North Carolina, South Carolina, Tennessee and Washington, DC, and a registered Florida Special Inspector
LEED® Accredited Professional (LEED AP BD+C)
Post-Disaster Safety Assessment Services Worker (California Emergency Management Agency)

Professional Affiliations

American Institute of Steel Construction (AISC)
Structural Engineers Association of Georgia (SEAOG)
National Council of Structural Engineers Associations (NCSEA)

Presentations

Innovative Engineering II: Case Study of the Dr. Phillips Center in Orlando, co-presented with Laura A. Lewis at the Structures Congress 2013, Structural Engineering Institute of ASCE, Pittsburg, PA, May 2-4, 2013.
Case Study of the Dr. Phillips Center for the Performing Arts, ACI Spring 2011 Convention, American Concrete Institute, Tampa, FL, April 3-7, 2011.

Professional Experience

HEAD of Engineering, Atlanta, Georgia, 2016-Present
Principal & Expert Witness

Assisting attorneys, insurance companies, contractors, architects, engineers, owners, and developers in determining whether a project was designed or constructed according to code minimums and the standard practice in the industry; conducting an investigation into causes of under-performance or failure; and determination of the cause when a building or building component has failed or otherwise resulted in an injury.

- **Dr. Phillips Orlando Center for the Performing Arts, Orlando, Florida**
Consultant for the Music Hall Theater Design for the completion of the facility

- **Lamplight Court Apartments, Doraville, Georgia:** Design for replacement stairs and balconies
- **Expert witness for attorneys on multiple litigation cases in Georgia, South Carolina and Tennessee**
- **524 West Peachtree Street, Atlanta, Georgia:** Structural Property Condition Assessment (PCA)
- **FNC K-12 School, Kampala, Uganda –** Structural Master Planning for K-12 Boarding School for Engineering Ministries International

Heery International, Atlanta, Georgia, 2012-2016

Sr. Associate/Sr. Structural Engineer

- **Seymour Johnson AFB Clinic, Goldsboro, North Carolina**
Design/Build delivery of a new, two-story clinic facility with a PTFE fabric roof over the Medical Mall Atrium; structural design to resist wind, seismic and Anti-Terrorist /Force Protection (blast) design loads.
- **Robins AFB Clinic Renovation and Structural Upgrade, Warner Robins, Georgia**
Design/Build renovation of 1960's facility to meet current wind, seismic and Anti-Terrorist/Force Protection (blast) design requirements
- **Georgia Military Academy Basketball Arena, Milledgeville, Georgia**
Steel framed concrete upper story on reinforced concrete lower level with basketball court, running track, weight room and curved roof trusses
- **Billerica House of Corrections Expansion, Middlesex County, Massachusetts**
256 bed precast modules expansion and a two-story dorm with 240 beds

TLC Engineering for Architecture, Fort Myers and Orlando, Florida, 2003-2012

Principal/Partner

- Chairman of TLC's Structural Committee
- **Dr. Phillips Orlando Center for the Performing Arts Orlando, Florida**
State-of-the-art center including three performance halls (2,800 seat amplified theater, 1,800 seat acoustic theater, and 300 seat theater), outdoor plaza and performance space, rehearsal rooms, administrative offices and educational programming space \$240M, 330,000 sf
- **Charlotte County schools after Hurricane Charley, 2004, Punta Gorda, Florida**
Investigation and reports for all the Charlotte County schools, in various state of damage
- **Sarasota County, Charlotte County, Collier County schools –** biannual bleacher inspections
- **Agrirama, Arcadia, Florida**
Investigation of the Agrirama Building, partially collapsed during Hurricane Charley
- **Collier County schools after Hurricane Wilma 2005, Naples, Florida**
Investigation and reports for several Collier County schools
- **Sarasota County Assembly Building, Sarasota, Florida**
Investigation of partially collapsed, recently renovated assembly building
- **East Elementary School, Punta Gorda, Florida**
Replacement elementary school on site of hurricane destroyed school. LEED Certified
- **Fort Myers Post Office, Fort Myers, Florida**
Investigation of existing post office built in 1910 to be transformed into an arts center
- **Sarasota High School, Building 4, Sarasota, Florida**
Investigation and report of the condition of a distressed historic structure built in 1950
- **WCI Headquarters Building, Bonita Springs, Florida**
200,000 sq. ft., 6-story office building plus 4-level parking garage

Stanley D. Lindsey and Associates, Ltd., Atlanta, GA, 1996-2003

Sr. Structural Engineer

- **First Congregational Church, Atlanta, Georgia**
Investigation and report for renovation, partial demolition and expansion of 1910 era historic church
- **Three Wells Fargo Center Office Building and Parking Garage, Charlotte, North Carolina**
40-story, 1.3 million sq. ft. reinforced concrete building; 4 above and 4 below ground parking levels

- **Turner Chapel AME Cathedral, Marietta, Georgia**
3,000 seat auditorium, 95,000 sq. ft. church
- **B-52 Two-bay Fuel Cell Maintenance Hangar, Barksdale AFB, Shreveport, Louisiana**
60,000 sq. ft. structural steel hangar for two B-52 bombers
- **Centers for Disease Control and Prevention Laboratory Building 110, Atlanta, Georgia**
5-story reinforced concrete laboratory building with concrete interstitial floors designed to prevent progressive collapse in the event of a terrorist attack
- **Centers for Disease Control and Prevention, Central Energy Plant, Atlanta, Georgia**
Two-story plant and Utility Tunnel to supply energy and utilities to the Chamblee CDC Campus
- **Columbus Public Library, Columbus, Georgia**
3-story, 100,000 sq. ft. structural steel Library with Robert A.M. Stern Architects
- **Schwartz Center for the Performing Arts, Emory University, Atlanta, Georgia**
70 ft span trusses over 800 seat concert hall with 500 tons of acoustical, pre-cast concrete
- **Fort Valley Basketball Arena, Natatorium Complex, Fort Valley, Georgia**
1400 seat basketball arena and natatorium

Brittingham and Associates, Norcross, Georgia, 1994-1996

Sr. Structural Engineer

- **Beaufort Marine Air Corps Station Expansion, Beaufort, South Carolina**
Expansion of existing buildings and design of new hangars, training facilities, washracks and office facilities as part of the BRAC-III program
- **Jacksonville NAS various buildings, Jacksonville, Florida**
Renovation of paint and maintenance hangars; expansion of existing F-16 Naval Depot
Investigation and renovation of various buildings
- **Meadowview Conference and Civic Center and Hotel, Kingsport, Tennessee**
8-story flat plate, cast-in-place concrete hotel; 400,000 sq. ft. convention and civic center

O'Kon and Company, Atlanta, Georgia, 1985-1994

Sr. Project Engineer

- **Pre-Civil War Woollen Mill Investigation, Atlanta, Georgia:** Report for preserving Pre-Civil War structure
- **Bryant-Denny Stadium, Tuscaloosa, Alabama:** Forensic investigation of partial collapse during construction
- **Various miscellaneous forensic investigations**
- **Jacksonville NAS Building, Jacksonville, Florida**
Investigation and report of a 1940's building with long-span timber trusses
- **Orlando International Airport, Orlando, Florida**
1.2 million sq. ft. post-tensioned parking garage; 500 room, post-tensioned flat slab hotel
500,000 sq. ft. composite steel Flight Center/Airside Terminal for Delta Airlines
- **Resurgens Plaza, Atlanta, Georgia**
30-story office building and parking garage built in Rapid Transit Rail air rights

Omrانيا (UK) Ltd., London, United Kingdom and Riyadh, Saudi Arabia 1982-1983

Project Engineer

- **Design of multiple Saudi Arabian projects in London office of multi-disciplinary Saudi Arabian company**

Ove Arup and Partners (Now ARUP), London, United Kingdom, and Riyadh, Saudi Arabia, 1977-1982

Project Engineer

- **Hillat Al Hammad shopping center and parking garage**
- **Shumaisi and Al Taif hospital expansions**
- **Various villas and low to medium-rise office buildings and hotels**
- **KOCOMMAS Government Center in Riyadh, Saudi Arabia**

09/06/19