

ENGINEER: CIVIL/STRUCTURAL

TAMMY L. ST. CLAIR, M.S., P.E.

Engineering Design & Testing Corp.

Post Office Box 3741

Charleston, West Virginia 25337

Telephone: (304) 757-0220

Facsimile: (304) 757-0228

tstclair@edtengineers.com

EDUCATION:

2000 **Master of Science, Civil Engineering**
University of Tennessee
Emphases: Steel/Concrete Structures and Construction Management

1998 **Bachelor of Science, Civil Engineering**
West Virginia Institute of Technology

EXPERIENCE:

May 2009 **Engineering Design & Testing Corp.**
Charleston, West Virginia

Consulting Engineer. Analysis of residential, commercial, institutional, and industrial structures, including the evaluation of roofs, foundations, storm-related damage, blasting, construction vibrations, moisture intrusion, code compliance, and post-fire structural assessment. Analyses include photographic study, damage assessment, root cause, repair and/or replacement cost estimate, and competency/code compliance.

February 2008 **American Home Inspectors & Engineering Assessments, Inc.**
to May 2009 **Hurricane, West Virginia**

Civil/Structural Engineer. Civil/structural engineering analysis and condition assessment of residential and commercial structures.

July 2003 **Engineering Design & Testing Corp.**
to February 2008 **Columbia, South Carolina**

Consulting Engineer. Analysis of residential, commercial, institutional, and industrial structures, including the evaluation of roofs, foundations, storm-related damage, blasting, construction vibrations, moisture intrusion, code compliance, and post-fire assessment. Analyses include photographic study, damage assessment, root cause, repair and/or replacement cost estimate, and competency/code compliance.

CURRICULUM VITAE:

TAMMY L. ST. CLAIR, M.S., P.E.

PAGE 2

September 1999
to June 2003

**Ferro Products Corp. and Icon Construction, Inc.
Charleston, West Virginia**

Structural Engineer. Design, analysis, and evaluation for new conventional structural steel buildings and existing steel and concrete buildings, including commercial, institutional, and industrial facilities. Designs and analyses considered BOCA codes, Standard Building Code, and International Building Code and were completed using both Allowable Stress Design and Load Resistance Factored Design for steel/joist roofs and floors, steel/concrete composite floors, vertical support and lateral force resistance systems, member connections, trusses, stairs/landings, and mechanical platforms. Completed the design of shallow concrete foundations for columns and masonry walls, as well as the design of concrete masonry unit retaining walls.

Project Manager. Estimating and quoting of labor for steel erection crews, including the development of new spreadsheet support and updated unit item rates. Coordinated with general contractors, materials suppliers, and field superintendent on job scheduling. Addressed structural concerns related to design, fabrication, and existing condition inconsistencies. Developed with the field superintendent, general contractor, architect, owner, and engineer-of-record efficient solutions to minimize construction costs.

August 1998
to August 1999

**Engineering Fundamentals Department, University of Tennessee
Knoxville, Tennessee**

Graduate Teaching Fellow. Assisted in the development of freshman engineering curriculum. Instructed freshman engineering courses and laboratories in Statics, Dynamics, Computer Graphics, Computer Programming, and Engineering Orientation. Served as advisor and mentor to freshman engineering students.

May 1994
to July 1998

**United States Army Corps of Engineers
Huntington, West Virginia**

Student Trainee/ CO-OP. Assisted in the development of the Residential Floodproofing Program, including completing inspections and evaluations of existing residential structures, writing scopes of work, completing site, demolition and details drawings, and estimating materials quantities.

October 2011

CURRICULUM VITAE:

TAMMY L. ST. CLAIR, M.S., P.E.

PAGE 3

PROFESSIONAL ORGANIZATIONS:

American Society of Civil Engineers (ASCE)
Structural Engineering Institute of ASCE (SEI)
International Code Congress (ICC)
American Institute of Steel Construction (ASIC)

REGISTRATIONS:

Registered Professional Engineer in West Virginia (#15444)
Registered Professional Engineer in South Carolina (#23035)
Registered Professional Engineer in North Carolina (#029274)
Registered Professional Engineer in Tennessee (#00109878)
Registered Professional Engineer in California (#C 68823)
Registered Professional Engineer in Mississippi (#17002)
Registered Professional Engineer in Louisiana (#32036)
Registered Professional Engineer in Kentucky (#25128)
Registered Professional Engineer in Ohio (#74154)
Registered Professional Engineer in Virginia (#0402046767)
Registered Professional Engineer in Pennsylvania (#PE 077405)
Registered Professional Engineer in Maryland (#38582)
Registered Professional Engineer in Indiana (#PE11012093)
Registered Professional Engineer in Florida (#73621)

National Council of Examiners for Engineering and Surveying (Record #23813)

CONTINUING EDUCATION:

- *Wood Decay vs. Termite Damage*; Engineering Design & Testing Corp., 2010
- *Tile Flooring Installation and Inspection*; Engineering Design & Testing Corp., 2010
- *High Wall Stability*; CTL Engineering, 2010
- *Concrete Waterproofing & Repairing with Crystalline Technology*; Watertite Inc., 2009
- *Segmented Retaining Wall Course*; Rhodes Brick and Block, 2008
- *Fundamentals of Ground Anchors and Anchored Structures*; Terratech, LLC, 2008
- *Soils Basics for Engineers*; Auburn University, 2007
- *Concrete Petrography*; Engineering Design & Testing Corp., 2007
- *Post-Toasting – Post Fire Structural Surveys and Investigations*; Engineering Design & Testing Corp., 2007
- *Lean On Me – Temporary Construction Bracing*; Engineering Design & Testing Corp., 2007
- *Hurricane Damage Evaluation Procedures*; Engineering Design & Testing Corp., 2006
- *Hail Testing of Residential Roofing Materials*; Engineering Design & Testing Corp., 2006

CURRICULUM VITAE:

TAMMY L. ST. CLAIR, M.S., P.E.

PAGE 4

- *Making Weather Work for You*; Weather Data, 2006
- *Who is Fellenius and What Can He Tell Us About Unsuitable Soils*; Engineering Design & Testing Corp., 2006
- *An Introduction to Infrared Thermography*; Engineering Design & Testing Corp., 2005
- *Windows: Performance and Testing*; Engineering Design & Testing, Corp., 2005
- *Confined Space Compliance*; Safety and Health Council of North Carolina, 2004

PRESENTATIONS:

- *Earthquakes - Key Components to Aid in Damage Evaluation*; Engineering Design & Testing Corp. Engineers' Meeting, San Antonio, Texas, 2011
- *Vibration Damage: Is It All It's Cracked-Up to Be?*; Bluegrass Claims Association, Lexington, Kentucky, 2010
- *Basement Foundation Walls*; Engineering Design & Testing Corp. Engineers' Meeting, Columbia, South Carolina, 2010
- *When Roofs Go To Hail*; Engineering Design & Testing Corp. Spring-Ed, Charlotte, North Carolina, 2006
- *Moisture Intrusion: Damages, Causes, Cures*; 9th Annual RJMW Catastrophe Conference, Charlotte, North Carolina, 2006
- *Variations Between the Florida Building Code and the International Building Code*; Engineering Design & Testing Corp. Engineers' Meeting, Asheville, North Carolina, 2005

PUBLICATIONS:

- "Seismic Design for the Metropolis"; *The Stress Point*; Volume 24, Number 1; March 2011
- "Some Concepts in Seismic Design"; *The Stress Point*; Volume 23, Number 4; December 2010
- "Keeping the Cold Outside"; *The Stress Point*; Volume 22, Number 4; December 2009
- "Deck Attachments – How Do They Stack Up?"; *The Stress Point*; Volume 19, Number 2; July 2006
- "A Mighty Wind"; *The Stress Point*; Volume 18, Number 3; September 2005
- "Which Building Code Applies?"; *The Stress Point*; Volume 17, Number 2; May 2004