

**PAUL ZAMROWSKI ASSOCIATES, INC.**  
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**CURRICULUM VITAE**  
**RUSSEL E. DANIELS**

**EXPERIENCE**

- 1987 - Consulting Civil/Structural Engineer and Associate of Paul Zamrowski Associates, Inc. Engineering investigation and analysis of residential, industrial, and commercial buildings to determine cause and extent of damage, recommend repairs, and determine compliance with codes. Analyses of wind damage, construction failures, collapses, etc. Inspected thousands of roofs for damage and cause of leaks. Investigated over 2000 Home Owner's Warranty claims for structural defects. Design repairs for all types of buildings. Prepare structural design for over one thousand single family dwellings, additions, garages, and decks. Qualified as an expert witness in Pennsylvania, Delaware, Maryland and New Jersey.
- 1977 - 1986 Allen-Sherman-Hoff Co. A manufacturer of equipment, structures, and systems for fossil fuel power plants (utility and industrial).
- 1982 - 1986 Director of Engineering - Annual budget of over \$5 million. Responsible for multiple discipline engineering staff of over 60 direct people plus up to 20 jobbers.
- 1977 - 1982 Manager Structural Engineering. Supervised the 25 engineers and designers, performed structural design, and performed all necessary administrative work relative to the group.
- 1973 - 1977 Betz Environmental Engineers, Inc. A consulting firm designing water treatment plants, air pollution facilities, and industrial complexes. I was a Structural Engineer with responsibility for design, analysis, computer programming, and supervision of other Engineers.
- 1969 - 1973 Stainless, Inc. Design Engineer, responsible for design, cost estimating and computer programming for large and small television, radio, and microwave towers of up to 2200 feet in height.

**EDUCATION**

Central Bucks High School, Doylestown, PA 1961-1964  
Drexel University, Philadelphia, PA 1964-1969 BSCE

**REGISTRATION** Professional Structural Engineer - Pennsylvania, New Jersey, Delaware,  
Maryland, New York

**MEMBERSHIPS**

American Institute of Steel Construction (AISC)  
American Society of Civil Engineers (ASCE)  
National Society of Professional Engineers (NSPE)  
International Code Council (ICC)  
Wood Truss Council of America (WTCA)

# PAUL ZAMROWSKI ASSOCIATES, INC.

## SEMINARS ATTENDED BY R. E. DANIELS

Steel Design - Current Practice Lecture Series (AISC)	1984
Managing Technical People & Operations (Lehigh University)	1985
Timber Construction Manual Seminar	1987
Troubleshooting Concrete Problems (ACI)	1987
Roofing Seminar - Construction Specifications Institute (CSI)	1989
Steel Deck Institute - Diaphragm Seminar (SDI)	1990
Residential Building Code Training (Penn State)	1991
Lumber and Building Codes Seminar (PENN-BOC)	1992
American Iron and Steel Institute Seminar (PENN-BOC)	1993
Building Code Enforcement (Penna. DCA)	1993
Building Code Update Seminar (BOCA)	1993
Louisiana Pacific Floor Systems Seminar (PENN-BOC)	1993
Earthquake Codes & Masonry Design (PCMA & MCACP)	1995
Residential Steel Framing (PENN-BOC)	1995
Simpson Strong Tie Products & Code Requirements (PENN-BOC)	1995
Commercial Roof Problem Analysis and Roofing Options (NRCA)	1995
1996 BOCA National Building Code Update (Penn-BOC)	1996
Wood Solutions Fair - Building Codes and Wood Design, Designing with the National Design Specification, Designing Wood Trusses, Engineered Wood Products, Architecture and Wood (APA, AF & PA, WTCA)	1997
New Philadelphia Building Code Seminar	1997
Investigations of Building Facade Failures (CSI)	1997
Designing Steel for Serviceability (AISC)	1997
ACT 222 Energy Conservation Act (Penn-BOC)	1997
Plan Review (Penn-BOC)	1997
Wood Frame Building Design (Penn-BOC)	1997
Exterior Insulation Finish System (EIFS) BOCA/Penn-BOC	1998
Americans With Disabilities Act Update (PSPE)	1998
Installation & Inspection of Structural Connections (Penn-BOC)	1999
Overview of International Building Code (Penn-BOC)	2000
2000 International Building Code-Wind and Snow Provisions (ICBO)	2001
Light Steel Framing and the Structural Engineer (TSN)	2002
Principles of 2000 International Building Code (Penn-BOC)	2002
Hilti Fire Protection Life Safety (Penn-BOC)	2002
Concrete Innovations & Answers (High Concrete)	2005
Building Envelope Construction, Protection & Restoration (PA Prof. Engineers)	2005
Simpson 2005 Connector Workshop	2005
Penna Fire Safe Construction Advisory Council	2006
Green Design and Building Restoration (PSPE)	2007
Design Steel Your Way (AISC)	2007
Shear and Braced Wall Workshop (Simpson)	2007
2006 IBC Architectural Applications for Designers (ICC)	2007
Segmental Retaining Wall – Design & Construction (PCMA)	2008
I-level Seminar – Wall Bracing	2009
I-level Seminar – Tall Walls	2009
Navigating the Latest Developments In Insurance Coverage	2010
Condition Evaluation of Existing Structures (ASCE)	2010
Renovation of Residential Framing (ASCE)	2010
Underpinning and Strengthening of Foundations (ASCE)	2010
Failures of Wood Framed Structures (ASCE)	2010
Investigation & Repair of Fire Damaged Framing (ASCE)	2010
Renovation of Wood Trusses (ASCE)	2010
Roofing Systems: A Primer For Engineers (ASCE)	2010
Structural Design of Residential Buildings (ASCE)	2010
ASCE 7-10 Snow Load Provisions (ASCE)	2010
Tour of the Geo-Synthetics Institute (PSPE)	2010

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New Jersey DCA B524-IRC/IBC Stucco Installation	2010
Underpinning of Older Structures (SEI-ASCE)	2010
ASCE 7-10 Wind Loads (ASCE)	2011
Changes to Wind Load Provisions of ASCE 7-10 (ASCE)	2011
Avoiding Failures of Retaining Walls (ASCE)	2011
Direct Design of Masonry Structures (PCMA)	2011
Structural Masonry Design Software (PCMA)	2011
Ethics Forum: Staying True to Client Expectation (NSPE)	2012
Ethics Forum: Promoting an Ethical Workplace (NSPE)	2012
Concrete Repair Basics (ACI)	2012
Exterior Insulation Finishing Systems (NJ DCA)	2012
Exterior Plaster Finishing Systems (PENN BOC)	2012
Permeable Interlocking Concrete Pavement (PCMA)	2012
Segmental Retaining Wall Plan, Design, Build	2012
Evaluating Damage and Repairing Wood Trusses	2012
Energy Efficient Building Envelope Design	2012
Complying with PA Energy Conservation	2013
Shallow Foundation Design, Construction and Repair	2013
Blast Loads and Tools	2013
Government and Industry Requirements	2013
SDOF Analysis and SBEDS	2013
Structural Design for Blast	2013
Glazing Systems	2013
Ethical Engineering: Concepts and Challenges	2014
Engineer's Duty to Report	2014
Helical Piles & Anchors	2014
PCCA Annual Symposium	2015
Engineering Investigation of Hurricane Damage	2016
Ethical Issues for Structural Engineers	2016
Changes to Factory Built Housing	2016
2015 ICC Code Update	2016
Penn Energy Codes Program	2016
Report Violation and Foreclosures	2016
New Tools for Code Enforcement	2016
Engineering Ethics Expert Witness	2016
Elevating Your Construction and Management w/Cloud Technology	2017
Ethics in Engineering Design	2017
Sink Holes: Formation, Prevention, and Repair	2017
Technology of Adhesive Anchors	2017
Fundamentals of Cast-in-Place Anchor Channel System Design with AC232	2017
Deck Connections & The Factors Affecting Performance	2017
Geotechnical concerns for Building Foundations	2017
Properly Identifying and Documenting Changes	2017
Seismic Behavior and Design of Low Ductility Concentrically Braced Frames	2017
Masonry Repair and Restoration of Early 20 <sup>th</sup> Century Transitional Masonry Buildings	2017
Improving the Workflow of Reinforced Concrete Structures through Effective Utilization of BIM Technologies	2017
Foundations 101: An Overview of Shallow and Deep Foundation Systems	2017
Delegation of Steel Connection Design: How To Do It Right	2017
USAR/SEER Building Exercise	2017

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## SEMINARS TAUGHT BY R. E. DANIELS

Engineering Evaluation of Roof Damage  
Philadelphia Loss Conference - 1989

### Structural Problems

Tri-State ASHI - 1991, 1994, 1995 (4 presentations)  
PENN-BOC - 1991 (2 presentations)  
Philadelphia L & I - 1991

### Structural Defects and Problems

PENN-BOC (BOCA Approved) 1993  
New Jersey DCA & Rutgers 1994, 1995 (12 presentations)

### Structural Defects and Problems Two

PENN-BOC (BOCA Approved) 1996 (4 presentations)  
New Jersey DCA & Rutgers 1996, 1997 (12 presentations)  
Eastern States Building Officials Federation 1997 (1 presentation)  
New York State, Div. Code Enforcement 1997 (1 presentation)  
Niagara Frontier Building Officials Association 1998 (1 presentation)

### Residential Structural Design - Rights and Wrongs

New Jersey DCA & Rutgers 1998, 1999, 2000, 2001 (14 presentations)  
Finger Lakes Building Officials Association 2000  
Tri-State ASHI - 1999

### Residential Structural Defects

New Jersey Chapter CSI 1998  
Hudson Valley Code Enforcement 1999  
Philadelphia L & I - 1999 (2 presentations)

### Structural Failures In Buildings

Finger Lakes Building Officials Association 1999  
New Jersey Chapter CSI 1999

### Structural Problems vs. IBC & IRC

New Jersey DCA & Rutgers 2003, 2004, 2005 (12 presentations)

### Structural Problems & Concerns

New Jersey DCA & Rutgers 2008 & 2009 (6 presentations)

### Right and Wrong Residential Construction

Garden State Chapter of ASHI 2008

### Structural Problems & Failures

New Jersey DCA & Rutgers 2013, 2014 (5 presentations)