

**Gregory N. Felten, S.E.**

**Curriculum Vitae**

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**Education:** B.S. in Civil Engineering, Brigham Young University  
Provo, Utah 1982

**Honors:** Tau Beta Pi

**Professional Licenses:** Licensed Structural Engineer, State of Arizona seal # 27867  
Licensed Professional Engineer, State of Texas seal # 91485  
Licensed Structural Engineer, State North Carolina seal # 055079

**Professional Organizations:**

Professional Member: American Concrete Institute  
Professional Member: American Institute of Steel Construction  
Professional Member: American Society of Civil Engineers  
Professional Member: American Wood Council  
Professional Member: Applied Technology Council  
Professional Member: Arizona Structural Engineers Association  
Professional Member: AZ Forensic and Remediation Foundation Association  
Professional Member: Cold-Formed Engineers Institute  
Professional Member: EERI, Earthquake Engineering Research Institute  
Professional Member: Home Builders Association of Arizona  
Professional Member: Home Builders Association of Metro Denver  
Professional Member: International Code Council  
Professional Member: National Association of Home Builders  
Professional Member: National Concrete Masonry Association  
Professional Member: Post Tension Institute  
Professional Member: Wood Truss Council/Structural Building Components Association  
Professional Member: Building Seismic Safety Council  
Residential Engineers and Architects Council on Housing  
American Plywood Association

**Past Board Member:**

Building and Fire Appeals Board for the City of Surprise, Arizona  
AZBO Code Review Committee – Structural Subcommittee

**Advisory/Consulting Organizations:**

PATH, Partnership for Advancing Technology in Housing  
FPS, Forest Product Society  
BSC, Building Science Corporation  
NRDC, Natural Resources Defense Council  
CUREe, California Universities for Research in Earthquake Engineering  
U.S. Army Construction Engineering Research Laboratory (Seismic and SEG Shear Wall)

### Active Committees

Founding Professional Member: AZ Forensic and Remediation Foundation Association  
Professional Member: ASCE SEI Diversity, Equity & Inclusion Committee  
Professional Member: ASCE Committee on Forensic Practices  
Member: State of Arizona Board of Technical Registration Enforcement Advisory Committee

### Active Advisory/Consulting Organizations:

SBCA / NFC, Structural Building Components Association / National Framers Council  
Engineering Committee

### Seminar Instructor/Advisor:

Advisor – Arizona Building Officials Structural Engineering Classes Annual Spring/Fall Education Institute - 2018 – Present

Instructor - Arizona Building Officials Tenth Annual Spring/Fall Education Institute 2003  
Basic Residential Structural – Tucson, Arizona, October 2003  
Basic Residential Structural – Prescott, Arizona, April 2003

Instructor - Arizona Building Officials Spring/Fall Education Institute 2000/2001  
Engineered Residential Systems – Prescott, Arizona, June 2000/April 2001/2002  
Engineered Residential Systems – Tucson, Arizona, November 2001

Guest Lecture – Arizona State University – Dr. Ward CEE423 Structural Design 2020/2021

Forensic Presentation for SEA of AZ February 16<sup>th</sup> 2021

Advisor—Arizona Masonry Guild--- 2008-Present

Advisor---HBAC---2001-Present

### Work History:

- Felten Group, Inc. February 2001 To Present
- Bingham Engineering, Inc., Phoenix, Arizona from May 1985 to February 2001.

My specific areas of expertise are in forensic investigations of single and multi-family residences and offsite retaining walls/fences for land development of single family and multi-family residences<sup>1</sup>. In addition I consult with architects, designers, licensed builders, professional organizations and licensed contractors to develop construction documents and drawings for a submittal to municipalities. This often involves presenting interpretations on building codes and practices to city officials in various contexts suited to the needs of our clients.

My structural consulting experience includes offices buildings, churches, restaurants, and multi-family housing, with the majority being in single-family housing including custom and tract. I have designed structures using all basic building materials including concrete, steel, masonry, wood and aluminum.

I have personally designed and supervised the design of hundreds of residential houses that

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have been built in Arizona, Nevada, California, Utah, New Mexico, Texas, Florida, Illinois and South Carolina and 29 other states. I am presently working in Arizona as an expert in forensic investigation of single-family homes, new design of single-family residences, offsite retaining walls and fences.

<sup>1</sup> Several hundred homes and offsite walls inspected for structural integrity from 1986 to present.

## **Defense Witness Participation:**

- Young v. Elliott CV2001-016916
- Keaton v. Fulton Homes CV2001-022224
- Jeffrey Stone v. BBP (Third Party) CV2001-022348
- Stonegate HOA v. Fulton Homes CV2001-091512
- Nelson v. Del Webb CV2002-000221
- Wilson v. Fulton CV2002-001977
- Clifford v. Markland CV2002-009732
- Durango II HOA v. Shea/Sutter Masonry CV2002-012142
- Jackson Properties v. Sutter Masonry (Third Party) CV2002-014164
- Lipson v. Pacific Indemnity CV2003-000096
- Foothills Gateway v. Pulte Homes CV2003-007843
- Cupero v. Courtland CV2003-008175
- Villas at Copperwynd v. Copper Rim CV2003-018385
- Houy v. Fulton Homes CV2003-020568
- Niles & Thomas v. Fulton Homes
- Dawn Maddock v. Diamond Keys
- Del Prado v. Del Webb
- Hockensmith v. Courtland
- Adams/Rader v. Executive Homes

**Seminars and Lectures Attended:**

- TBPE Professional Engineering Practice Update/Ethics  
Phoenix, Arizona Nov. 2022 (1 Hr)
- ARPA Arizona Rock Products Association  
Build with strength Aggregate Quarry, Concrete Batch Plant, Special Project Site  
Phoenix, Arizona Oct. 2022 (5 Hr)
- SEA Structural Engineers Association  
DES344 Residential Wood Construction FAQs: Woodn't You Like to Know "Two"?"  
Phoenix, Arizona Sep. 2022 (1.5 Hr)
- AWC American Wood Council  
*Webinar: DES344 Residential Wood Construction FAQs: Woodn't You Like to Know "Two"?"*  
Phoenix, Arizona Jul. 2022 (1. Hr)
- Trus joist  
*Webinar: Floor Performance" (TJ-Pro Rating system)"*  
Phoenix, Arizona Jul. 2022 (2 Hrs)
- AWC American Wood Council  
*Webinar: STD120 2018 NDS Changes*  
Phoenix, Arizona May. 2022 (1. Hr)
- Woodworks  
*Webinar: Common Challenges in Wood Lateral System Layouts*  
Phoenix, Arizona May. 2022 (2 Hrs)
- Woodworks  
*Webinar: Zero Lot Line Buildings and Wrap-Around Structures: Detailing Exterior Walls Part 2*  
Phoenix, Arizona Feb. 2022 (2 Hrs)
- AWC American Wood Council  
*Webinar: DES425 Shear Walls Panel Discussion*  
Phoenix, Arizona Feb. 2022 (1. Hr)
- Woodworks  
*Webinar: Detailing for Wood-Frame Exterior Walls part 1*  
Phoenix, Arizona Feb. 2022 (2 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Essential Code Compliance in Light Wood Frame Construction*  
Phoenix, Arizona Feb. 2021 (1.5 Hrs)
- CFSEI, Cold -Formed Steel Engineers Institute  
Frequently Misunderstood Wind Load Topics for Cold-Formed Structures  
Phoenix, Arizona, Jan. 2021 (1.5 Hrs)
- APA  
*Webinar: Lateral Load Path Basics: Tracing a wind load through a wood framed structure*  
Phoenix, Arizona Jan. 2021 (1 Hr)
- HBACA, Home Builders Association of Central Arizona  
Re-Imagining NEIGHBORHOOD 2020

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Phoenix, Arizona, Nov. 2020 (1 Hr)

- ASCE American Society of Civil Engineers  
*Webinar: Design of Snow Loads for Solar Paneled Roofs (6003W2021)*  
Phoenix, Arizona Oct. 2020 (1.5 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Foundations for Metal Building Systems (8241W2020)*  
Phoenix, Arizona Sept. 2020 (1.5 Hrs)
- Simpson Strong-Tie  
*Safer, Stronger Decks: Guard Post Connections*  
Phoenix, Arizona May. 2020 (1 Hr)
- SEA Structural Engineers Association  
*Webinar: A Primer on Lateral Load Resisting Frames Using Steel Joists and Joist Girders*  
Phoenix, Arizona May. 2020 (1.5 Hrs)
- AWC American Wood Council  
*Webinar: Special Inspections for Wood Construction*  
Phoenix, Arizona May. 2020 (1.5 Hr)
- AWC American Wood Council  
*Webinar: Wood Shear Wall Seismic & Wind Design Example per 2018 WFCM & 2015 SDPWS)*  
Phoenix, Arizona Jan. 2020 (1.5 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: Reinforced Masonry: Design and Construction (8074W2020)*  
Phoenix, Arizona Jan. 2020 (1.5 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: How Construction Tolerances Affect Structural Design (8071W2020)*  
Phoenix, Arizona Jan. 2020 (1.5 Hrs)
- Woodworks  
A Design Example of a Wood Cantilever Diaphragm  
Phoenix, Arizona Dec. 2019 (4 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Design of Masonry Anchors (8043W2020)*  
Phoenix, Arizona Nov. 2019 (1.5 Hrs)
- AWC American Wood Council  
*Webinar: Wood Structural Panels Designed to Resist Combined Shear & Uplift*  
Phoenix, Arizona Sept. 2019 (1 Hr)
- AWC American Wood Council  
*Webinar: Demystifying Diaphragm Design (DES431 )*  
Phoenix, Arizona Jul. 2019 (1 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: Snow and Rain Loads in ASCE 7-16: What's New and Different (7211W2019)*  
Phoenix, Arizona Jun. 2019 (1 Hr)

- ASCE American Society of Civil Engineers  
*Webinar: Designing with AWC's National Design Specification (NDS) for Wood Construction 2018: Overview and Changes from Previous Editions - UPDATED (7193W2019)*  
Phoenix, Arizona May. 2019 (1.5 Hrs)
- Simpson Strong-Tie  
*Meeting Braced-Wall Requirements: A New Portal Frame Solution (Greg F)*  
Phoenix, Arizona Apr. 2019 (1 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: Underpinning and Strengthening of Foundations (7116W2019)*  
Phoenix, Arizona Feb. 2019 (1 Hr)
- AWC American Wood Council  
*Webinar: BCD121 Significant Wood Design and Construction: Changes to 2018 IBC & NDS*  
Phoenix, Arizona Feb. 2019 (1.5 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: Design of Masonry Shear Walls (7046W2019)*  
Phoenix, Arizona Nov. 2018 (1.5 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Design of Foundations for Equipment Support (7040W2019)*  
Phoenix, Arizona Nov. 2018 (1.5 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Wind Design for Components and Cladding Using ASCE 7-16 (7037W2019)*  
Phoenix, Arizona Nov. 2018 (1 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: Significant Changes to the Wind Load Provisions of ASCE 7-16 and Coordination with the 2018 IBC and 2018 IRC (7017W2019)* Phoenix, Arizona Oct. 2018 (1 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: Glued Laminated Timber and Cross Laminated Timber: Mass Timber for a New Generation of Wood Construction*  
Phoenix, Arizona Sep. 2018 (1 Hr)
- APA Wood  
*Webinar: Connection Design Solutions for Wood-Frame Structures*  
Phoenix, Arizona Jul. 2018 (1 Hr)
- Simpson Strong-Tie  
*Making Wood Connections Work for Two-Hour Fire Walls*  
Phoenix, Arizona July. 2018 (1 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: Post-Tensioning Concepts and Practice - Beyond the Basics - NEW (6215W2018)*  
Phoenix, Arizona Jun. 2018 (1.5 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Changes to the Nonbuilding Structures Provisions in ASCE 7-16 (6211W2018)*  
Phoenix, Arizona Jun. 2018 (1 Hr)

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- ASCE American Society of Civil Engineers  
*Webinar: Investigation and Repair of Fire-Damaged Framing (6207IW2018)*  
Phoenix, Arizona Jun. 2018 (1.5 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Significant Changes to the Wind Load Provisions of ASCE 7-16 and Coordination with the 2018 IBC and 2018 IRC- UPDATED (6188IW2018)*  
Phoenix, Arizona May. 2018 (1 Hr)
- Woodworks  
*Webinar: Rational Design Methods for Shear walls*  
Phoenix, Arizona May. 2018 (3 Hrs)
- AWC American Wood Council  
*Webinar: BCD306 Prescriptive Residential Wood Deck Construction Guide (DCA6-2015 Version)*  
Phoenix, Arizona Apr. 2018 (1 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: Innovative Foundation Design Methods for Structures on Expansive Soils (6105W2018)*  
Phoenix, Arizona Mar. 2018 (1.5 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: - Introduction to 2015 International Existing Building Code - UPDATED (6103W2018)*  
Phoenix, Arizona Feb. 2018 (1.5 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Advanced Topics in the Seismic Design of Nonbuilding Structures and Nonstructural Components to ASCE 7-16*  
Phoenix, Arizona Feb. 2018 (1 Hr)
- AWC American Wood Council  
*Webinar: 2018 Wood Frame Construction Manual Changes – STD350*  
Phoenix, Arizona Jan. 2018 (1 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: Practical Design of Bolted and Welded Steel Connections (6062W2018)*  
Phoenix, Arizona Jan. 2018 (1.5 Hrs)
- AWC American Wood Council  
*Webinar: Engineering Investigations of Hurricane Damage: Wind versus Water (6024W2018)*  
Phoenix, Arizona Dec. 2017 (1 Hr)
- Hilti  
*Webinar: Alternative Designs for Anchorage to Concrete (6060W2018)*  
Phoenix, Arizona Dec. 2017 (1 Hr)
- Hilti  
*Webinar: 2018 NDS Changes (STD120)"*  
Phoenix, Arizona Dec. 2017 (1 Hr)
- Woodworks  
*Webinar: Moment Resistant Breakthrough: from concept to code acceptance*  
Phoenix, Arizona Dec. 2017 (1 Hr)

SBCA

*Webinar: Cornucopia of Classic Connection Conundrums (DES340)*  
Phoenix, Arizona Nov. 2017 (1 Hr)

Woodworks

*Webinar: 2015 NDS Connections Primer (DES345)*  
Phoenix, Arizona Oct. 2017 (1 Hr)

AWC

American Wood Council  
*Webinar: Advanced Snow Loads Using ASCE 7-16 (6011W2018)*  
Phoenix, Arizona Oct. 2017 (1 Hr)

ASCE

American Society of Civil Engineers  
*Webinar: Tall Wood Structures: Fire Resistance Design Primer for Mass Timber Construction (DES602)*  
Phoenix, Arizona Sept. 2017 (1.5 Hrs)

ASCE

American Society of Civil Engineers  
*Webinar: - Structural Design of Steel Stairs and Rails (8278W2017)*  
Phoenix, Arizona Dec. 2017 (1 Hr)

AWC

American Wood Council  
*Webinar: Resolving Wood Shear Wall Design Puzzles with Force Transfer around Openings (DES415)*  
Phoenix, Arizona Aug. 2017 (1.5 Hr)

ASCE

American Society of Civil Engineers  
*Webinar: Strengthening Wood Beams and Joists*  
Phoenix, Arizona Aug. 2017 (1.5 Hrs)

AWC

American Wood Council  
*Webinar: Renovation of Slabs on Grade (8267W2017)*  
Phoenix, Arizona Aug. 2017 (1 Hr)

ASCE

American Society of Civil Engineers  
*Webinar: Design of Loadbearing Tall Wood Studs for Wind and Gravity Loads (DES230)*  
Phoenix, Arizona Jun. 2017 (1 Hr)

AWC

American Wood Council  
*Webinar: Rational Design Methods for Shear Walls with Openings*  
Phoenix, Arizona May. 2017 (1.5 Hrs)

ASCE

American Society of Civil Engineers  
*Webinar: Gypsum Cracking Issues & Trusses*  
Phoenix, Arizona May. 2017 (1 Hr)

TBPE

*Webinar: Texas ethics course for professional engineers*  
Phoenix, Arizona Apr. 2017 (1 Hr)

Simpson Strong-Tie

*Practical Design Methods for Diaphragms with Openings webinar*  
Phoenix, Arizona Apr. 2017 (1 Hr)



- AWC American Wood Council  
*Webinar: Hilti Anchoring Principles and Design*  
Phoenix, Arizona Feb. 2017 (1 Hr)
- ASCE American Society of Civil Engineers  
*Webinar: Post-Installed Reinforcing Bar Design: Anchor or Reinforcement*  
Phoenix, Arizona Jan. 2017 (1.5 Hrs)
- AWC American Wood Council  
*Webinar: Seismic Example WFCM/SDPWS Comparison 2015 (DES413-4)*  
Phoenix, Arizona Jan. 2017 (1 Hr)
- AWC American Wood Council  
*Webinar: Calculating ASD Shear Wall Capacities per 2015 SDPWS Using the Equal Deflection Approach Provisions* Phoenix, Arizona Dec. 2016 (1 Hr)
- AWC American Wood Council  
*Webinar: Calculating Gravity Loads for Structures up to Three-Stories WFCM Engineering Provisions*  
Phoenix, Arizona Oct. 2016 (2 Hrs)
- AWC American Wood Council  
*Webinar: Calculating Wind Loads on Low-Rise Structures per WFCM Engineering Provisions STD342.1*  
Phoenix, Arizona Sept. 2016 (2 Hrs)
- SKGA  
*Webinar: Design and Construction of Post-Tensioned Slabs on Ground Using the PTI Method*  
Phoenix, Arizona Aug. 2016 (2.5 Hrs)
- AWC American Wood Council  
*Webinar: Disaster Resistant Wood Frame Construction Example using 2015 WFCM - Part 4: 1st Story*  
Phoenix, Arizona May 2016 (1 Hr)
- AWC American Wood Council  
*Webinar: Disaster Resistant Wood Frame Construction Example using 2015 WFCM - Part 3: Two story*  
Phoenix, Arizona May 2016 (1 Hr)
- AWC American Wood Council  
*Webinar: Disaster Resistant Wood Frame Construction Example using 2015 WFCM - Part 2: Roof*  
Phoenix, Arizona May 2016 (1 Hr)
- AWC American Wood Council  
*Webinar: Disaster Resistant Wood Frame Construction Example using 2015 WFCM - Part 1: Loads*  
Phoenix, Arizona May 2016 (1 Hr)
- FEMA *Webinar: FEMA P-50 and FEMA P-50-1 Webinar*  
Phoenix, Arizona March 2016 (1.5 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Practical Design of Slabs on Grade*  
Phoenix, Arizona March 2016 (1.5 Hrs)
- ATC *Webinar: Seismic Eval. And Retrofit of Multi-wood frame building w/ weak 1st stories*  
Phoenix, Arizona March 2016 (1.5 Hrs)

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- ASCE American Society of Civil Engineers  
*Webinar: Avoiding Failures of Retaining Walls (7073W2016)*  
Phoenix, Arizona January 2016 (1.5 Hrs)
- Steel Framing Alliance  
*Webinar: Cold-Formed Steel Lateral Design Webinar*  
Phoenix, Arizona October 2015 (1.5 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Evaluating Damage and Repairing Metal Plate Connected Wood Trusses (7024W2016)*  
Phoenix, Arizona October 2015 (1.5 Hrs)
- AWC American Wood Council  
*Webinar: DES140 Structural Condition Assessment of In-Service Wood*  
Phoenix, Arizona October 2015 (2 Hrs)
- ASCE American Society of Civil Engineers  
*Webinar: Design of Multi-Story Light-Frame Shear Walls – NEW (6134W2015)*  
Phoenix, Arizona March 2015 (1 Hr)
- Wood Products Council  
*Webinar: Glued Laminated Timber – An Innovative and Versatile EWP*  
Phoenix, Arizona December 2013 (1 Hr)
- American Wood Council  
*Webinar: Foundation Design to Resist Flood Loads and WFCM Calculated Wind Loads*  
Phoenix, Arizona September 2013 (1 Hr)
- American Wood Council  
*Webinar: Wind Load Distribution on Buildings – Load Paths*  
Phoenix, Arizona September 2013 (1 Hr)
- American Wood Council  
*Webinar: Wind Speed and Design Pressure Determination According to ASCE 7-10*  
Phoenix, Arizona September 2013 (1 Hr)
- USP Structural Connectors  
*USP Structural Connectors/Hardy Frames/Z4/CE/pDH*  
Phoenix, AZ May 2013 (1.5 Hrs)
- PTI, Post-Tensioning Institute  
*Design of Post-Tensioned Slab-on-Ground*  
Scottsdale, Arizona May 2013 (4 Hrs)
- SEA, National Council of Structural Engineers Associations  
*Wind Series #5 – Wind Loads on Non-Standard Building Configurations*  
Phoenix, Arizona March 2013 (1.5 Hrs)
- National Concrete Masonry Association  
*Concrete Masonry for Residential Applications/Durability of Segmental Retaining Walls*  
Phoenix, Arizona December 2012 (1 Hr)
- Steel Framing Alliance  
*Cold-Formed Steel Framed Lateral Design Using AISI S213*  
Phoenix, Arizona December 2012 (1.5 Hrs)

Wood Products Council

*Webinar: Basic Connector Training 101*  
Phoenix, Arizona May 2012 (1 Hr)

AISC, American Institute of Steel Construction

*Conference: World Steel Bridge Symposium Annual Stability Conference*  
Grapevine, Texas April 212 (11.5 Hrs)

Wood Products Council

*Webinar: Lateral Systems for Multi-Unit Construction*  
Phoenix, Arizona March 2012 (1 Hr)

Simpson Strong-Tie

*Webinar: All Audience – All Topic Workshop*  
Phoenix, Arizona March 2012 (6 Hrs)

Wood Products Council

*Webinar: Lateral Systems for Multi-Unit Construction*  
Phoenix, Arizona March 2012 (1 Hr)

Wood Products Council

*Webinar: Full-scale Shear Wall Tests for Forced Transfer Around Openings*  
Phoenix, Arizona July 2011 (1 Hr)

AISC, American Institute of Steel Construction

*Webinar: Design of Extended Shear Tabs*  
Phoenix, Arizona June 2011 (1.5 Hrs)

ASCE, American Society of Civil Engineers

*Webinar: Design of Stiffened Slabs on Grade on Shrink-Swell Soils – A New Approach*  
Phoenix, Arizona April 2011 (1.5 hrs)

ASCE, American Society of Civil Engineers

*Webinar: A General Overview of ASCE 7-10 Changes to Wind Load Provisions*  
Phoenix, Arizona March 2011 (1.5 Hrs)

ASCE, American Society of Civil Engineers

*Webinar: Structural Design for Residential Applications – Two Part Series*  
Phoenix, Arizona March 2011 (3 Hrs)

Simpson Strong-Tie

*Anchor Systems Workshop for Engineers, Architects & Designers*  
Phoenix, Arizona February 2011 (4 Hrs)

Wood Products Council

*Webinar: Durability By Design: The Do's And Don'ts of Exterior Wood Detailing*  
Phoenix, Arizona December 2010 (1 Hr)

Applied Technology Council

*Webinar: Post-Flood and Wind Safety Evaluation of Buildings*  
Phoenix, Arizona November 2010

AISC, American Institute of Steel Construction

*Webinar: Introduction to the New AISC 2010 Publications*  
Phoenix, Arizona October 2010 (1.5 Hrs)

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- ASCE, American Society of Civil Engineers  
*Webinar: A General Overview of ASCE 7-10 Changes to Wind Load Provisions*  
Phoenix, Arizona March 2010 (1.5 Hrs)
- ASCE, American Society of Civil Engineers  
*Webinar: Design & Rehabilitation of Foundations on Expansive Soils*  
Phoenix, Arizona March 2010 (1.5 Hrs)
- ASCE, American Society of Civil Engineers  
*Webinar: Structural Design of Metal Stairs and Rails*  
Phoenix, Arizona March 2010 (1.5 Hrs)
- Simpson Strong-Tie  
*Connector & Lateral Systems Workshop*  
Phoenix, Arizona March 2010 (5 Hrs)
- ASCE, American Society of Civil Engineers  
*Webinar: Foundations for Metal Buildings*  
Phoenix, Arizona May 2009 (1.5 Hrs)
- Simpson Strong-Tie  
*Concrete & Advanced Anchor Topics*  
Phoenix, Arizona April 2009 (4 Hrs)
- The Arizona Masonry Guild  
*Structural Masonry Design Software Seminar*  
Phoenix, Arizona March 2008 (4 hrs)
- Simpson Strong-Tie  
*Connector Workshop*  
Phoenix, Arizona January 2008 (4.5 hrs)
- ASCE, American Society of Civil Engineers  
*Webinar: Overview of the Structural Provisions of the 2006 IBC*  
Phoenix, Arizona October 2007 (1.5 hrs)
- ASCE, American Society of Civil Engineers  
*Webinar: Design of Wood-Framed Sloped Roofs*  
Phoenix, Arizona September 2007 (1.5 hrs)
- ASCE, American Society of Civil Engineers  
*Webinar: Reinforced Masonry: Design and Construction*  
Phoenix, Arizona August 2007
- ASCE, American Society of Civil Engineers  
*Webinar: Design of Steel Lintels in Masonry Walls*  
Phoenix, Arizona August 2007 (1.5 hrs)
- Arizona Masonry Guild  
*New Provisions of the 2005 MSJC and the IBC 2006 Masonry Codes*  
Phoenix, Arizona March 2007 (4 hrs)
- Arizona Ram Jack  
*Helical and Push Pier Technology for Foundations*  
Phoenix, Arizona February 2007 (6.5 hrs)

- SCI, Structures and Codes Institute Online Seminar  
*2006 IBC Structural Highlights*  
Phoenix, Arizona September 2006 (1.5 hrs)
- Simpson Strong-Tie  
*Simpson Strong-Tie Workshop*  
Phoenix, Arizona June 2006 (7 hrs)
- SEA, Structural Engineers Association of Arizona  
*Professional Development Hours*  
Tucson, Arizona June 2006 (6 hrs)
- Power Fasteners Inc.  
*Continuing Education Program*  
Phoenix, Arizona May 2006 (1.25 hrs)
- SEA, Structural Engineers Association Of Arizona  
*PCI Design Handbook Overview* Phoenix, Arizona March 2006 (8 hrs)
- ASCE, American Society of Civil Engineers  
*Structural Design of Residential Buildings* Phoenix, Arizona February 2006 (14 hrs)
- Phoenix Building Construction Code Amendments Seminar  
Phoenix, Arizona February 2006
- SCI, Structures & Codes Institute Online Seminar  
*ASCE 7-05 Minimum Design Loads for Buildings & Other Structures*  
Phoenix, Arizona January 2006 (1.5 hrs)
- HRI, Housing Research Institute  
*Lateral Bracing Seminar*  
Phoenix, Arizona November 2005 (3 hrs)
- SEA, Structural Engineers Association of Arizona  
*AISC Manuel*  
Tempe, Arizona June 2005 (6 hrs)
- PTI, Post-Tension Institute  
*Design of Post-Tension Slabs on Ground*  
Phoenix, Arizona May 2005 (7 hrs)
- SCI, Structures & Code Institute Telephone Seminar  
*Transitioning from the 1997 UBC to 2003 IBC Structural Seminar*  
Phoenix, Arizona February 2005 (1.5)
- ACEC, American Council of Engineering Companies of Colorado  
*Ethics for Forensic Engineering Practice*  
Lakewood, Colorado November 2004 (4 hrs)
- Woodframe Housing Durability and Disaster Issues*  
Las Vegas, Nevada October 2004 (24 hrs)
- Wood Solutions Fair  
*Wood Products and Construction*

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- Paradise Valley, Arizona October 2004 (6 hrs)  
NCMA, National Concrete Masonry Association  
*Arizona Masonry Guild/Designing With Concrete Masonry*  
Phoenix, Arizona, June 2003
- ASCE, American Society of Civil Engineers  
*Structural Condition Assessment*  
Long Beach, California, January 2003 (14 hrs)
- LGSEA, Light Gauge Steel Engineers Association  
*Practical Design of Cold-Formed Steel Structures*  
Phoenix, Arizona, August 2002 (7 hrs)
- HBACA, Home Builders Association of Central Arizona  
*Mold Seminar*  
Phoenix, Arizona, April 2002 (6 hrs)
- AISC, American Institute of Steel Construction  
*Practical Steel Design: 2 – 20 Stories*  
Phoenix, Arizona, October 2002 (5 hrs)
- AISC, American Institute of Steel Construction  
*Fundamentals of Connection Design*  
Phoenix, Arizona, February 2002
- ATC, Applied Technology Council  
*Seismic Evaluation; Grading and Rehabilitation of Single-Family Wood-Framed Dwellings*  
City of Commerce, California, January 2002
- Suncoast Post-Tension  
*Post Tensioning Seminar*  
Phoenix, Arizona, January 2002
- ICBO, International Conference of Building Officials  
*Wind and Snow Load Provisions of the International Building Code*  
Phoenix, Arizona, January 2002 (7.5 hrs)
- 2000 Overview of the International Residential Code*  
Phoenix, Arizona, November 2000 (6 hrs)
- SEA, Structural Engineers Association of Arizona  
*IBC 2000, Structural and Geo-technical Provisions; Welding Inspection for Structural Engineers; IRC 2000, Structural and Geo-technical Provisions*  
Tucson, Arizona June 2001 (6.5 hrs)
- PATH, the Partnership for Advancing Technology in Housing  
*Durability and Disaster Mitigation in Wood Framed Housing* - Madison, Wisconsin, November 1999