

**2008**

# STRUCTURE<sup>®</sup> Annual Article Index

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## January 2008 - Concrete

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7	Editorial	Change! Are You Willing And Able?	Chris Poland, S.E.
9	InFocus	The Order of the Engineer	Jon Schmidt, P.E., SECB
10	C - Structural Practices	Tilt-Up Building Seismic Design - Precast or Cast-In Place?	Joe Steinbicker, P.E., S.E., and John Lawson, S.E.
13	C - Structural Testing	Non-Destructive Testing of Reinforced Concrete	Gerard C. Feldman, P.E.
18	C - Building Blocks	FRP Retrofit Solutions - Critical Issues for Peer Review	Mark E. Williams, Ph.D., P.E., Hakim Bouadi, Ph.D., P.E., and Dilip Choudhuri, P.E.
21	C - Codes & Standards	Applying Appendix D of ACI 318 - Sizing Anchor Bolts Makes Me "Sigh" ( $\Psi$ )	Peter Carrato, Ph.D., P.E., S.E.
25	Feature	BIM Crosses Boundaries at Seattle-Area High Rise	Sheila Bacon
29	Feature	Mandarin Hotel Shoring	Stephen A. McDermott and Craig E. Barnes, P.E., SECB
33	Feature	Structural Form in Architecture - Domes, Arches and Shells	Horst Berger
39	C - Structural Design	Lateral Support of Wood Beams in Residential Structures	Gary Schweizer, P.E.
43	C - Structural Economics	Current Trends in Economical Reinforced Concrete Construction - Part 3: Reinforcement, Materials and Other Factors	Jim Delahay, P.E., and Brad Christopher, P.E.
48	D - Product Watch	Expanding the Use of Post-Tensioning in Buildings	John Crigler, P.E.
52	D-Risk Management	Quality Assurance of Structural Engineering Design - Part 1	Ying X. Cai, Ph.D., P.E., S.E., M.ASCE
55	C - Engineer's Notebook	Removing Stains from Concrete	Craig E. Barnes, P.E., SECB
58	D - Structural Education	Building Engineering & Construction - History of an Important Department at MIT	Werner H. Gumpertz, P.E., F.ASCE
61	D - Legal Perspectives	Contract Clauses to Know and Love	Robert V. Dell'Osa
65	D - Insights	Cold-Formed Steel - Trends, Techniques and Resources	Don Allen, P.E., SECB
67	D - Spotlight	Saint Patrick Church	Kevin H. Chamberlain, P.E.

## February 2008 - Steel

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7	Editorial	Getting Up to Speed on Seismic Design Requirements	James O. Malley, S.E.
9	InFocus	Structural Engineering That Off-Shore Engineering Won't Touch	Craig E. Barnes, P.E., SECB
11	C - Structural Forensics	World Trade Center 5 Failure Analysis	Kevin J. LaMalva, Jonathan R. Barnett, Ph.D., and Donald O. Dusenberry, P.E.
15	C - Structural Design	Site-Specific Seismic Studies for Optimal Structural Design - Part 1: General	Sissy Nikolaou, Ph.D., P.E.
20	C - Lessons Learned	Avoiding Structural Failures During Construction - Part 2	David B. Peraza, P.E., and Dennis M. McCann, Ph.D., P.E.
25	D - Code Updates	New and Revised Cold-Formed Steel Framing Standards Published	Jay W. Larson, P.E., F.ASCE
28	Feature	Masking a Building with a New Image	Zareh Gregorian, P.E. and Garen Gregorian, P.E., MSCE, MSME
32	Feature	Native American Wellness Center Framed with Engineered Wood	Ronald I. Kessler, A.I.A., and Donald Jaenicke
34	Feature	The Frederick Douglass - Susan B. Anthony Memorial Bridge	Samuel Anthony, P.E.
37	C - Structural Performance	Seismic Design and Behavior of Concentrically Braced Steel Frames	Charles W. Roeder, Ph.D., and Dawn E. Lehman, Ph.D.
41	C - Structural Practices	Reconsidering Fire Resistance Requirements for Tall Buildings	Ramon Gilsanz, P.E., S.E.
42	C - Structural Practices	Prescriptive Assemblies or Engineering Solutions?	Charles J. Carter, P.E., S.E.
47	D - Guest Column	TFEC 1-07 Standard for Design of Timber Frame Structures	Jim DeStefano, P.E.
48	D - InSights	Is Pervious Concrete Ready for Structural Applications?	Matthew Offenber, P.E.
51	D - Risk Management	It Fell	Richard Bender, P.E., and Rob Houser, P.E.
54	D - Great Achievements	George S. Morison - Pontifex Maximus	Frank Griggs, Jr., Ph.D., P.E., P.L.S.
59	D - Spotlight	The University of Phoenix Stadium Sets New Standards	Joseph M. Ales, Jr., Ph.D., P.E.



## March 2008 - Specialty & Non-Building Structures

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7	Editorial	Should Continuing Education Requirements be Mandatory?	John O. Grieshaber, P.E.
9	InFocus	What Structural Engineers Know	Jon A. Schmidt, P.E., SECB
10	C - Structural Performance	Tsunami-Induced Loading on Structures - Beyond Hollywood's Scenarios	Dan Palermo, Ph.D., P.Eng., and Ioan Nistor, Ph.D., P.Eng.
14	C - Lessons Learned	Wind Induced Vibrations on Light Standards	Pete Manis, P.E., and Wes Jones, P.E.
17	C - Structural Practices	Optimum Beam-To-Column Stiffness Ratio for Portal Frames	Sameh S. Badi, Ph.D., P.E., and Pedro Silva, Ph.D., P.E.
21	C - Practical Solutions	Continuous Tie-Down Systems - Part 3 - A Critical Evaluation	Alfred D. Commins
24	D - CASE Business Practices	Small Business Backup - Make a Wise Decision	Mark Ferrelli
27	Feature	Structural Design Requirements for Entertainment Venues - The Impact of Stage Rigging Loads	Shawn Nolan, P.E.
32	Feature	Reengineering Tradition - Structural Design of the University of Pennsylvania Commencement Ceremony Canopy and Staging	Frederic C. Baumert, P.E., and Amanda Weko
35	Feature	The API Gateway Project - Bridging Borders	Brad Mielke, S.E., P.E., Chad Harden, P.E., and Sowmya Somnath, P.E.
38	Feature	Structural Form in Architecture - Part 3 - From Tents to Tensile Architecture	Horst Berger
42	C - Structural Design	Timber Rivet Connections - Design Process for a Moment Connection	Robert J. Taylor, Ph.D., P.Eng., Assoc.AIA, and David M. Moses, Ph.D., P.Eng., P.E., LEED® AP
45	C - Engineer's Notebook	Antiquated Structural Systems Series - Part 3	D. Matthew Stuart, P.E., S.E., F.ASCE, SECB
48	D - Code Updates	Overview of Changes to 2007 AISI Specification - Design of Cold-Formed Steel Structural Members	Roger LaBoube, Ph.D., P.E., and Helen Chen, Ph.D., P.E.
51	C - Technology	High-Tech Tools for Structural Engineers	John A. Mercer, Jr., P.E., SECB
52	D - Risk Management	Quality Assurance of Structural Engineering Design - Part 2	Ying X. Cai, Ph.D., P.E., S.E., M.ASCE
55	D - Outside the Box	The Structure that Sings	Erik Anders Nelson, P.E., S.E.
57	D - Legal Perspectives	Why Documentation Matters Now More Than Ever	John F. Mullen and Mary Teresa Soltis

## April 2008 - Concrete

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7	Editorial	Let's Be Clear About What We're Doing	Chris D. Poland, S.E.
9	InFocus	Lateral Bracing for Equipment and Fixtures	Richard L. Hess, A.E., S.E., SECB, F.ASCE, CSI, CCCA
10	C - Building Blocks	Designing with Lightweight Concrete	William H. Wolfe
14	C - Structural Practices	Concrete Repair Basics	Gerard C. Feldmann, P.E.
18	C - Structural Design	Load-Carrying Capacity - Concrete Slabs-On-Grade Subject to Concentrated Loads	Vincent D. Azzi, Ph.D., P.E., and Ralph H. Laird
23	C - Structural Performance	Lateral Load Response Control Using the Gyroscope	Garen B. Gregorian, P.E. and Zareh B. Gregorian, P.E.
26	C - Practical Solutions	Designing Rod Tie-Down Systems - Part 4	Al Commins
30	Feature	High-Strength Rebar Expanding Options in Concrete Towers	Cary Kopczynski, P.E., S.E., F.A.C.I.
33	Feature	Repair of a Leaning Timber Steeple - Amen!	Daniel Proper, P.E., and Melissa O'Leary, EIT
38	Feature	Exposed Structural Systems Enhance Sustainability - Las Vegas Springs, Las Vegas, NV	Benjamin M. Cornelius, P.E.
42	D - Risk Management	Creating a Risk Sensitive Environment	Edward W. Pence, Jr., P.E., S.E., F.ASCE
44	C - Codes & Standards	Clarifying Permanent Bracing Issues - Design Community and Structural Building Components Industry Collaborate on Documents - Part 1	Kirk Grundahl, P.E., and Emily Patterson
49	D - Product Watch	Light and Thin Blast Protection	Stephan Hauser, Ph.D., P.E., and Larry Abatriell, P.E.
55	D - Insights	Don't Count on Cost Relief	Ken Simonson
56	D - Professional Liability	Liability Issues in the Professional Practice of Engineering - A Florida Example	Doron Weiss
59	D - Noteworthy	Ralph B. Beck	
61	D - Great Achievements	The Stuttgart School of Building Design	Martin Trautz, Univ.-Prof. Dr.-Ing and Lorraine Lin, Ph.D., P.E.
66	D - Spotlight	Building a Ballroom in the Sky	Brent Bonham, P.E., S.E.



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7	Editorial	Licensing Structural Engineers in Every Jurisdiction	Susan Jorgensen, S.E., S.E.
9	InFocus	The Principle of Insufficient Reason	Jon Schmidt, P.E., SECB
10	C - Guest Column	Masonry Detailing from Desktop to Job Site	Diane Throop, P.E., Keith Lashway, P.E., and Scott Conwell
14	C - Structural Practices	Masonry Advice for Structural Engineers	Jerry M. Painter
18	C - Structural Design	Designing Tall Masonry Walls	David T. Biggs, PE
22	D - Insights	Torque-Controlled Adhesive Anchors - An Introduction to a New Type of Post-Installed Anchor	Ryan Vuletic, P.E.
25	Feature	St. James' Church Bell Tower	Mark W. Holmberg, P.E.
28	Feature	11 Waverly Place, New York City - The Versatility of Structural Steel Allows for An Innovative Restoration Alternative	Nissim Agassi, P.E., Scott Kamen, AIA, and Denise Keaveney Co-authored by Ophir Agassi
34	Feature	How to Use Up 1.5 Million Bricks	Greg Schindler, P.E.
38	C - Construction Issues	Masonry Wall Bracing - What Goes Up, Doesn't Have to Come Down	Rashod R. Johnson, P.E.
42	D - Product Watch	SSMA Technical Updates	Don Allen, P.E., SECB
44	C - Professional Issues	Hiring a Structural Engineer - One Architect's Viewpoint	Richard E. Fencl, AIA, CSI, LEED AP
47	C - Codes & Standards	Deflection Limits for Wood Studs Backing Brick Veneer	Harold O. Sprague, P.E.
48	D - Great Achievements	Thomas C. Clarke	Dr. Frank Griggs, Jr., Ph.D., P.E., P.L.S.
51	D - InBox	Wind Induced Vibrations on Light Standards	
53	C - Lessons Learned	Residential Deck Ledger Connection Testing and Design	David Carradine, Ph.D., Don Bender, P.E., Ph.D., Joe Loferski, Ph.D., and Frank Woeste, P.E., Ph.D.
57	D - Risk Management	Certificates of Insurance - Why Bother...	Robert Bixby, CPCU
59	D - Spotlight	Structural Masonry: A Natural Choice for Walsh Chapel	Stephanie Staub

## June 2008 - Tall Buildings/High Rise

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7	Editorial	Who Should Inspect Our Bridges?	Andrew W. Herrmann, P.E., F. ASCE
9	InFocus	Engineers and Shoe Strings	Greg Schlinder, S.E.
10	C - Structural Practices	Performance Based Seismic Design - Rising	Ron Klemencic, P.E., S.E.
15	C - Structural Economics	Viscous Dampers Come of Age - A New Method for Achieving Economy in Tall Buildings	Michael Willford, Rob Smith, David Scott and Matt Jackson, S.E.
20	C - Structural Design	Performance-Based Design with Application to Seismic Hazard	Margaret Tang, Eduardo Castro, Flavio Pedroni, Andrzej Brzozowski, and Mohammed Ettouney
24	C - Codes & Standards	Building Periods: Moving Forward (and Backward)	William Jacobs, V, P.E.
31	Feature	Mandarin Oriental, Boston - Designing for the Urban Luxury Experience	Kevin Westerhoff, P.E.
34	Feature	Inspiring Innovation - One King West Tower	Agha Hasan, P.Eng., et al.
38	Feature	Free-D High Rises	Dr. Karel Vollers
42	Feature	Shard at London Bridge Tower - London's Tallest	Kamran Moazami, P.E., M. ASCE and Ahman Rahimian, Ph.D., P.E., S.E.
46	C - Guest Column	Seismic Design of Steel Staggered Truss Systems	Seismology Committee, Structural Engineers Association of California
49	C - Engineer's Notebook	Antiquated Structural Systems Series - Part 4	D. Matthew Stuart, P.E., S.E., F. ASCE, SECB
53	C - Building Blocks	Structural Use of Glass	David L. Kufferman, P.E.
58	C - Structural Performance	Vulnerability of Tall Buildings to Progressive Collapse	Vincenzo Melchiorre, P.E.
62	D - Insights	Structural Lightweight Aggregate and Concrete - How a 90-Year-Old Industry Finds Itself on the Leading Edge of the Sustainability Movement	John Ries, P.E.
64	D - Legal Perspectives	Emerging Risks of Green Construction - Will LEED® Lead Construction Professionals to Court More Often?	Russ A. Brinson and James B. Dolan, Jr.
66	D - Risk Management	The Beams Are Too Bouncy?	James C. Parker, P.E.
69	D - Great Achievements	Charles H. Thornton - Towering Builder of Towering Buildings	Richard G. Weingardt, P.E.
74	D - Spotlight	The Quigg Newton Auditorium & Ellie Caulkins Opera House	C. Ben Nelson, P.E.



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7	Editorial	It's Time to Pay Our People More - For the Sake of the Profession	Chris D. Poland, S.E.
9	InFocus	The Wisdom of Solomon	John A. Schmidt, P.E., SECB
11	C - Structural Forum	Another View of Shear Wall Hold-down Systems	Ronald F. "Rawn" Nelson, S.E.
14	C - Structural Forensics	The High Cost of Low Maintenance and Design Mistakes	Narendra K. Gosain, Ph.D., P.E.
18	C - Codes & Standards	Is It a Nonstructural Component or a Nonbuilding Structure?	Robert Bachman, S.E., and Susan Dowty, S.E.
22	C - Building Blocks	Multi-Story Tilt-Up Buildings - A Design Approach	Mark E. Remmetter, P.E., Shane A. Walters, P.E., and Joseph J. Steinbicker, P.E., S.E.
26	C - Engineer's Notebook	Practical Considerations for Dealing with Concrete Cracks in Decks	Craig E. Barnes, P.E., SECB
28	Feature	Amazing Georgia Tech Structures Lab	Marlo Sedki
30	Feature	Bill Williams River Concrete Bridge Fire Damage Assessment	Martha Davis, PE, Paul Tremel, P.E., and Alex Pedrego
34	Feature	Precast Concrete - A Unique Application - Sikorsky Bridge, Stratford, Connecticut	William J. Frank, P.E., Murali Hariharan, P.E., and Jeff Wood
40	D - Insights	On Designing with Buckling-Restrained Braced Frames	Walterio A. López, S.E.
43	C - Structural Forum	Lofty Goals, Pitiful Performance, Dreadful Results	James Warner, P.E.
44	D - InBox	Comments on Folding Bridges	Peter Kocsis, S.E., P.E.,
46	D - Product Watch	SCC Proves Successful in Repair and Strengthening Projects	Mike Miller, Ville Vainio and Jay Thomas
50	D - Legal Perspectives	Are You Ready for the New AIA Contract Documents?	Robert V. Dell'Osa, John F. Mullen, and Jared Loos, P.E.
52	D - Great Achievements	Ralph B. Peck (1912 - 2008)	Jim DeStefano, P.E., AIA
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59	D - Business Practices	Settling Your Own Claims is Not a Good Idea	Bob Bixby

## August 2008 - Light Frame Buildings

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9	InFocus	For What Planet Is This Code Written?	Richard L. Hess, A.E., S.E., SECB, F.ASCE, CSI, CCCA
11	C - Structural Performance - Intro	Establishing Seismic Equivalency for Proprietary Prefabricated Shear Panels - An Introduction to the Process	Ronald F. "Rawn" Nelson, S.E.
13	C - Structural Performance - Part 1	New Rules for Evaluating Seismic Performance of Prefabricated Shear Panels	Ned Waltz, P.E., and Ronald Hamburger, S.E.
19	C - Structural Performance - Part 2	Qualifications for Equivalence - An Illustration and Discussion of New Seismic Evaluation Provisions	Reynaud Serrette, Ph.D.
24	C - Structural Testing	Wind Technology to Blow the House Down - The Mechanics of Replicating Wind Loads	Gary Kemp
31	C - Practical Solutions	Rod Tie-Down Systems - Part 5 Inspection	Alfred D. Commins
34	C - Structural Design	Optimum Beam-to-Column Stiffness Ratio of Portal Frames Under Lateral Loads	Pedro Silva, Ph.D., P.E., and Sameh S. Badie, Ph.D., P.E.
38	Feature	Mast Swap	Paul A. Gossen, P.E., F.ASCE and David M. Campbell, P.E., M.ASCE
43	Feature	Response of Steel Buildings Subjected to 3D Seismic Motion - Blind Prediction Contest	Ganesh Thiagarajan Ph.D., P.E., and Rini Mitra
46	C - Structural Practices	Using Cold-Formed Steel Members - Where Do I Begin?	Rober A. LaBoube, Ph.D., P.E., and Brian Jaks, P.E.
50	D - Insights	Welding Advantages with High Performance Steel	Louis N. Triandafloou, P.E., and William Wright, Ph.D., P.E.
52	D - Risk Management	The Tale of a Construction Accident - How a Tight Scope of Work Can Save You	Frank S. Malits, P.E.
56	D - Great Achievements	C. Shaler Smith	Frank Griggs, Jr., Ph.D., P.E., P.L.S.
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66	D - Spotlight	The Estate "Suncatch" - Creating a Modern Masterpiece	Melissa Kroskey, P.E., and Daniel Korntved, S.E.

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12	C - Structural Economics	Economy in Steel Stiffened Seated Beam Connections	Brian N. Skourup, M. ASCE, M. Eng., and Richard Zottola P.E., C.E., M. ASCE, M.Eng.
14	C - Codes & Standards	ASCE 41-06: Seismic Rehabilitation of Existing Buildings - A New Tool for Achieving Seismic Safety	Chris D. Poland, S.E., F. SEAOC
18	C - Structural Forensics	Evaluation and Repair of Fire-Damaged Buildings	Narendra K. Gosain, Ph.D., P.E., Ray F. Drexler, P.E., and Dilip Choudhuri, P.E.
25	C - Engineer's Notebook	Antiquated Structural Systems Series - Part 5	D. Matthew Stuart, P.E., S.E., F. ASCE, SECB
30	C - Guest Column	A Brief Guide to Seismic Design Factors	SEAOC Seismology Committee
33	Feature	Engineering the Games	Dan Brodtkin, P.E.
40	Feature	Ten Chinese "Dragon" Tiles	Craig E. Barnes, P.E., SECB and Jean Louis Lachevre
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51	D - Great Achievements	George W. G. Ferris, Jr.	Richard G. Weingardt, P.E.
54	D - Spotlight	Best Presentations of 2008 SEI Structures Congress - Millau Viaduct and BIM Technology	Caleb Hing, Ph.D.
57	D - Insights	Blast Resistant Glazing Systems	Jon A. Schmidt, P.E., SECB, BSCP

## October 2008 - Bridges

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9	InFocus	Structural Engineering - Understanding a Life Long Passion	Craig E. Barnes, P.E., SECB
10	C - Historic Structures	Evolution of Cable Stayed Bridge Technology	W. Denney Pate, P.E., and W. Jay Rohleder, Jr., P.E., S.E.
17	C - Structural Forensics	Access Methods for Bridge Inspections	Brian J. Leshko, P.E.
22	C - Lessons Learned	Bridge Industry - One Year After the Minneapolis Bridge Collapse	Brian J. Leshko, P.E.
24	C - Structural Practices	Designing Edge Barriers in Parking Structures	Mohammad Iqbal, F. ASCE, D. Sc., P.E., S.E., Esq.
27	Feature	The Legacy of the Walnut Lane Memorial Bridge	George D. Nasser
32	Feature	Consumnes River Bridge - A Landmark of Timber Design	Donald A. Jaenicke
34	Feature	Introducing External Tendons to Israeli Bridge Construction	Craig Finely, P.E., and Jerry Pfuntner, P.E.
37	C - Technology	The Importance of BIM in Structural Engineering - the Greatest Change in Over a Century	William F. Ikerd II., P.E., CWI
41	C - Structural Design	The New Fire Safe Building Design	Dilip Khatri, Ph.D., S.E., and Gina Keil Cruz, P.E.
44	D - Insights	Low Shrinkage and Shrinkage Compensating Concrete Benefits	William S. Phelan
46	D - Business Practices	Project Team Collaboration	Scott A. Hammond
50	D - Great Achievements	Eugene C. Figg, Jr. - Eminent Designer of Signature Bridges	Richard G. Weingardt, P.E.
54	D - Risk Management	The Loads Just Didn't Add Up	Nils V. (Val) Ericson, P.E.
58	D - Spotlight	"The Best Thing That Ever Happened To Tampa"	Martin Stone, Ph.D., and Jose M. Rodriguez, P.E.

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## November 2008 - Steel

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7	Editorial	What Should We Expect In The Coming Year?	Robert Paullus, P.E., SECB
9	InFocus	What Is A Profession?	Jon A. Schmidt, P.E., SECB
10	C - Codes & Standards	Defining Responsibilities in Steel Joist Design - 2006 IBC Section 2206	Tim Holtermann, P.E., Bruce Brothersen, P.E., Mark Perry, P.E., and Walter Worthley, P.E.
14	C - Construction Issues	Monitoring Building Responses to Adjacent Construction	Charles J. Russo, P.E., Michael L. Brainerd, P.E., and Milan Vatrovec, P.E., Ph.D.
20	C - Structural Forensics	Consulting to Insurance Companies	Peter Marxhausen, M.S., P.E., and David Lancaster
26	C - Technology	BIM Power: Fire Protection	Andrew W. Gayer, P.E., S.E., M. ASCE
28	C - Structural Performance	Pakistan Earthquake Reconstruction and Recovery Program - Structural Engineering Considerations	Ahsan M. Sheikh, P.E., S.E., and Saif M. Hussain, P.E., S.E.
33	Feature	Stainless Steel Replacement - Community Swimming Pool for the City of South Gate, California	Richard Hess, S.E., SECB, F. ASCE
38	Feature	The Colonie Center Mall - An Aging Shopping Center Gets a Second Lease on Life	Malcolm McLaren, P.E., W. Richard Mahoney, P.E., and V. Douglas Platt, Jr., P.E.
42	C - Lessons Learned	Structural Collapse from Snow Loads	Michael O'Rourke, Ph.D., P.E.
46	C - Building Blocks	Repair of Wood Trusses	Steven E. Fox, P.E.
50	C - Structural Forum	Structural Analysis: Are We Relying Too Much On Computers? Part 1 - The Problem	Graham H. Powell, Ph.D., P.E.
53	C - Engineer's Notebook	Antiquated Structural Systems Series - Structural Steel Composite Stub-Girder Construction - Part 6	D. Matthew Stuart, P.E., S.E., F. ASCE, SECB
57	D - Product Watch	Build Bigger by Starting Smaller - Engineered Wood Products Solve Design Challenges in Large Residences	Chris Brandt, P.E.
60	D - InSights	Strong Motion Instrumentation of Buildings	Anthony F. Shakal, Ph.D., and Moh J. Huang, Ph.D., P.E.
64	D - Legal Perspectives	Patents in Structural Engineering	Christopher A. Rothe, Esq.
69	D - Great Achievements	James Finley	Donald Sayenga

## December 2008 - Soils & Foundations

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9	InFocus	Kipling's Tribute	Mike Mota, P.E.
10	C - Technology	BIM and the Structural Engineering Community	Dan Schinler, P.E., and Eric Nelson, P.E.
14	C - Structural Design	Inverted Drilled Pier Bells to Resist Uplift	James Corsiglia, P.E., S.E., and Corey Switanowski, P.E., LEED AP
16	C - Structural Performance	The ShakeOut Scenario - A Hypothetical M7.8 Southern San Andreas Fault Earthquake	Keith A. Porter, P.E., Ph.D.
20	C - Structural Forum	Structural Analysis: Are We Relying Too Much on Computers? Part 2 - A Solution	Graham H. Powell, Ph.D., P.E.
25	C - Engineer's Notebook	Antiquated Structural Systems Series - Part 7	D. Matthew Stuart, P.E., S.E., F. ASCE, SECB
29	C - Professional Issues	Compelling Reasons for Separate Licensing of Structural Engineers	Susan Jorgensen, P.E.
31	C - Guest Column	New Partnership to Aid in Disaster Relief - SEERP Gives Structure to Emergency Response	Katherine Leitch
33	Feature	NCSEA 2008 Excellence in Structural Engineering Awards - 11 <sup>th</sup> Annual Awards Program	
43	Feature	When Foundations Settle - Jacking of a Column in a 5-Story Concrete Building	Dominic A. Webber, P.E., S.E.
47	D - Insights	The Promise of NEES	Steven L. McCabe, Ph.D., P.E.
51	D - Risk Management	Contract Documents - Different Strokes for Different Folks	Richard Bender, P.E., and Rob Houser, P.E.
53	D - Great Achievements	John Augustus Blume - Father of Earthquake Engineering	Richard G. Weingardt, P.E.