

**2006**

# STRUCTURE® Annual Article Index

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## January 2006 - Concrete

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8	InFocus	A Charge to Keep	Jon A. Schmidt, P.E., SECB
12	C - Building Blocks	Reducing Steel, Increasing Profits Ways to Design Smarter Amidst Rising Steel Costs	Sheila Bacon
14	Feature	Glued Laminated Timber Pedestrian Bridge	Edward Stanley
16	C - Structural Design	Design of Lifting and Bracing for Today's Tilt-Up Structures	Mark Remmetter, P.E., James Baty
20	D - Structural Updates	Katrina: Wood-Frame Damage Assessment - Preliminary Observations	Rakesh Gupta
21	C - Construction Issues	Mill Creek Crossings - The Challenges of a 120 Foot Clear Span Pedestrian Bridge	Eric G. Peul, P.E.
23	C - Lessons Learned	Robert Purcell Community Commons - Saving a Building from Alkali Silica Reaction	Peter Paradise, P.E.
25	C - Structural Practices	The Power of Petrography	Laura J. Powers
29	Feature	The New Colorado River Bridge at Hoover Dam	David Goodyear, P.E., S.E. Bonnie Klamerus, P.E. Robert Turton, P.E., S.E.
32	C - Insights	Innovations Position Masonry for the Future	Phillip Samblanet, P.E.
34	Feature	Curtain Up! - Sprint Center Structure Helps the Show Go On	David W. Landis, P.E.
39	Feature	The Empire State Building - Façade Evaluation and Repair of an Engineering Landmark	Robert J. Nacheman, P.E.
44	D - Case Business Practices	Paving a Path for Differentiation	Suzanne Lowe
48	D - Great Achievements	The Father of Synergetics - Inventor of the Geodesic Dome or not, Budky Fuller was its greatest advocate	Richard Weingardt, P.E.
52	D - Spotlight	Building Instrumentation Facilitates Recovery after an Earthquake	
58	D - Code Updates	Post-Installed Anchor Approvals for ACI 318 Appendix D	Ronald A. Cook, Ph.D., P.E., Richard Wollmershauser, P.E., Brian C. Gerber, S.E.

## February 2006 - Steel

Pg #	Magazine Section	Article Title	Author
7	Editorial	Contributing Back to the Profession	Greg Robinson
8	InFocus	Just What Is It That Structural Engineeres Are Supposed To Accomplish?	Richard Hess, S.E., SECB, FASCE
10	C - Structural Forum	What's Wrong with Steel Drawings?	Robert (Bob) Hazelton
13	C - Structural Practices	Welding Peformance Qualifications - What the Engineer Needs to Know	Kenneth W. Coryell, SCWI
18	C - Technology	Interoperability for the Steel Industry	Luke Faulkner
22	C - Building Blocks	Weld Backing Materials - Alternate Backing Materials for Use in Structural Steel Welds	Thomas Schafly
25	Feature	New York's Hearst Tower - A Restoration, an Adaptive Reuse and a Modern Steel Tower Rolled Into One	Ahmad Rahimian, Ph.D., P.E., S.E., and Yoram Eilon
31	C - Construction Issues	Inspection of Steel Construction	Robert E. Shaw, Jr., P.E.
36	Feature	Revelations - the Joan Weill Center for Dance	Rebecca Harting and Pablo Bruno, P.E.
39	C - Codes and Standards	AISI Committee on Framing Standards - Removing the Guesswork from Cold-Formed Steel Framing Design	Roger A. LaBoube and Jay W. Larson
42	C - Insights	Paint Questions	Roscoe (Skip) Pendry
45	D - Quality Control	AISC Certification Hang On Tight, and Don't Let Go!	Brian Raff
47	D - Spotlight	The Adaptive Reuse of Soldier Field - Chicago, Illinois	Joseph Burns, P.E., S.E., FAIA, and David McLean, CEng, MIStructE, MIEI
50	D - CASE Business Practices	Defending and Indemnifying a Client	Victor O. Schinnerer & Company
55	D - Great Achievements	A Self-Taught Engineer - Wendel Bollman (1814 - 1884)	Dr. Frank Griggs, Jr., P.E.



## March 2006 - Wood

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7	Editorial	Wind Tunnel Testing Moving Forward	Larry Griffis, P.E.
8	InFocus	The Engineering Method	Jon A. Schmidt, P.E., SECB
10	Feature	Combating Landslides in Southern California	Gregory Axten, P.E.
14	C - Codes and Standards	ICC Standard on Log Construction - ICC/ANSI 400 - 2005	John "Buddy" Showalter, P.E. and Rob Pickett
18	C - Structural Forum	What's Wrong with A/E Drawings for Commercial Buildings? - From The Perspective of an Engineered Wood Products Manufacturer	Guy Brousseau, P.E., and John Saggiani
23	C - Structural Design	Wood Structural Panels - Combining Uplift and Shear Resistance	Ed L. Keith, P.E., APA
26	Feature	Timber Rivets	Christopher C. Williams, P.Eng, MBA
29	Feature	History Repeats Itself - Building the City Destroyer	Jennifer Prichard, E.I.
32	D - CASE Business Practices	New Strategies on Recruitment and Retention - Coping with the Staffing Crisis	Sharon Youngblood
34	C - Construction Issues	Visual Stress Grading - Logs and Timbers Used in Log Structures	Edwin J. Burke, Ph.D.
40	C - Structural Practices	Lateral Resistance of Walls and Anchorage in Log Structures	Robert Leichti, Randy Scott Thomas Miller, P.E., and Jeff Sharpe, P.E.
44	Feature	Timber Pegs - Considerations for Mortise and Tenon Joint Design	Richard J. Schmidt
47	D - Spotlight	Designing a Tree House for Books - Beaverton City Library, Beaverton, OR	

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7	Editorial	Structural Engineers Seem Tireless	James E. Trant, P.E., S.E.
8	InFocus	Basic Education for Structural Engineers	Craig E. Barnes, P.E., SECB
13	Feature	Designing for Progressive Collapse	Margaret Tang Matthew J. Kmetz, P.E., Adam Hapij, P.E., Peter DiMaggio, P.E., and Mohammed Ettouney, Ph.D., P.E.
18	C - Building Blocks	Concrete...the New Carpet	Bev Garnant
21	C - Construction Issues	CASE Guide to Special Inspections and Quality Assurance - Part 1	Jim DeStefano, P.E.
24	Feature	Dynamic Analysis Procedures for Progressive Collapse	Elizabeth Agnew, M.S., and Shalva Marjanishvili, Ph.D., P.E.
28	C - Codes and Standards	ACI Certification - Coming of Age in the Construction Industry	John Nehasil
30	Feature	The Applied Element Method - the ultimate analysis of progressive collapse	Hatem Tagel-Din, Ph.D. and Nabil A. Rahman, Ph.D., P.E.
34	Feature	UFC 4-023-03: Design of Buildings to Resist Progressive Collapse - A Review and Update on Department of Defense Progressive Collapse Guidance	Kirk A. Marchand, P.E., David J. Stevens Ph.D., Brian Crowder, P.E., and Tim Campbell, P.E.
40	C - Insights	Prefabricated Structures in Marine Dock Construction	Kamyar Nikzad, P.E. and Anne Fabrello-Streufert, P.E.
45	D - Code Updates	2006 IBC Permits Wood Framing to Support Structure Concrete	John "Buddy" Showalter, P.E.
47	D - Great Achievements	Felix Candela: Creator of Poetic Structures 1910 - 1997	Lorraine Lin, Ph.D., P.E.
51	D - Spotlight	St. Martin's Episcopal Church, Houston, TX	Peter J. "Chip" Hurley III, P.E., Christof Spieler, P.E., and Moyeen Haque, Ph.D., P.E.

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## May 2006 - Masonry

Pg #	Magazine Section	Article Title	Author
7	Editorial	Shares Well with Others...SEA Activities Matrix	Vicki Arbitrio, P.E., SECB
8	InFocus	Heuristics and Judgement	Jon A. Schmidt, P.E., SECB
10	C - Building Blocks	Masonry Rocks!!! Reinforced Hollow Brick Masonry	Steve Dill, S.E.
14	C - Insights	Structural Design for Fire Conditions - Who is Responsible?	Dr. Leonard Albano Ph.D., Dr. Robert Fitzgerald, Ph.D.
17	Feature	Masonry Tips for Structural Engineers	The Masonry Society
20	C - Codes and Standards	Mortar Testing - Who? What? Where? When? and Why?	Richard Filloramo
26	C - Construction Issues	CASE Guide to Special Inspections and Quality Assurance - Part 2	Jim DeStefano, P.E.
29	C - Practical Solutions	Infrared Inspection of Masonry	Carrie J. Johnson, P.E., and Thomas Wallace, P.E.
32	Feature	Improving Structural Drawings for Masonry Construction	Richard Filloramo
40	C - Lessons Learned	Collapse of Sloping Masonry Veneer	Richard L Hess, S.E., SECB
42	Feature	Understanding Structural Masonry Quality Assurance	John Chrysler, P.E.
45	C - Technology	Software for the Structural Design of Masonry	Russell H. Brown, James K. Nelson, Jr., and Dennis Graber
50	D - From Experience	170 Tremont Street - Thin Brick Seated Pre-Cast Failures	Craig E. Barnes, P.E., SECB
52	D - Great Achievements	The Inspirations of a German Immigrant - Albert Fink	Dr. Frank Griggs, Jr., P.E.
55	D - Code Updates	Building Codes for Masonry Veneer	J. Gregg Borchelt, P.E.
58	D - Spotlight	Masonry Takes Center Stage in Red Bank	John C. Bachenski

## June 2006 - Tall Buildings

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7	Editorial	The Promise of BIM	Joseph M. Ales, Jr., Ph.D., P.E.
8	InFocus	Podcasting, Blogs, and Wikis - Can New Technology Lead to More Efficiency?	John "Buddy" Showalter, P.E.
11	C - Engineer's Notebook	Quick Methods - Finding Errors in Structural Analysis and Design Results	James Hanson, P.E., Ph.D.
14	C - Construction Issues	Multi-Story Light-Frame Construction - Understanding Continuous Tiedown Systems	Avik Ghosh, M.S., P.E., Steve Pryor, P.E., S.E., and Ricardo Arevalo, P.E., S.E.
21	C - Professional Issues	The Interdisciplinary Nature of Structural Fire Protection	James A. Milke, Ph.D., P.E.
24	C - Practical Solutions	Dampers - Do You Need Them?	Roy Denoon, B.Eng., M.E. (Res), Ph.D., M.A.S.C.E
28	Feature	The Burj Dubai Tower - Wind Engineering	Peter A. Irwin and William F. Baker
32	C - Structural Forensics	Fire Damaged Post Tensioned Slabs	Douglas Sarkkinen, P.E., S.E.
36	C - Structural Practices	Building Design for Extreme Events	Matthew A. Johann, MSc and Brian J. Meacham, Ph.D., P.E.
40	Feature	Tapei 101 - Ingredients of High Rise Design - the World's Tallest Building	Leonard M. Joseph, Dennis Poon and Shaw-song Sheih
47	C - Structural Design	Foundation Design - Understanding Geotechnical Factors of Safety in the Design of Foundations	Peter D. Marxhausen, P.E., and Aaron Bagley, P.E.
52	Feature	Constructability - Maximizing Simplicity	David I. Ruby, P.E., S.E., SECB
58	D - Great Achievements	Willard E. Simpson - The Daring Texan	Richard G. Weingardt, P.E.
62	D - Product Watch	Making Spaces - Innovative Design Increases Floor Spans in High-Rise Condos	Sheila Bacon
65	D - Talking Points	Media Relations as Public Relations - Positive Coverage of Structural Engineering	Ronald F. "Rawn" Nelson, S.E.
68	D - From Experience	High Rise Wood Frame Construction - Cornerstone Condominiums	Brian Knight

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## July 2006 - Concrete

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7	Editorial	CASE....Past, Present and Future	Edward W. Pence Jr., P.E., S.E. FASCE
8	InFocus	Learning from Failures	Jon A. Schmidt, P.E., SECB
11	C - Building Blocks	Carbon Fiber Reinforcing - Making Double Tees in Parking Structures Lighter and Stronger	Harry A. Gleich, P.E., FACI, FPCI
14	C - Codes and Standards	Concrete Provisions of the 2006 International Building Code	S.K. Ghosh, Ph.D.
18	C - InSights	Structural Tests and Special Inspections - Overview of the Changes in the 2006 IBC Chapter 17	Greg Schindler, P.E., S.E.
20	Feature	Ponder Me This...Curious Deflection	Erik Anders Nelson, P.E., S.E.
23	C - Structural Design	Concrete Mix Design for Durability - Integration of Technologies	Neal S. Berke, Lianfang Li, Klaus A. Rieder, and Arnon Bentur
28	C - Structural Practices	Precast Prestressed Double-Teer Concrete Parking Garages	Jeffrey M. Reder, P.E.
30	C - Structural Forensics	Beyond Failure... A Look at the "How" and the "Why" When Structures Fail	Jeffrey R. Needham, P.E. and Malcolm "Andy" Carter, P.E.
35	C - Lessons Learned	Double Tee Flange Failures - Study of an Existing Parking Garage	Frank Lagodimos, P.E., SECB
38	Feature	John Earley and the Baha'i Temple	Kimberly Waggle Kramer, P.E.
42	C - Technology	Anchor Design Made Easy! - A Review of Anchor Design Software Considerations	John Silva, S.E.
45	Feature	Bendable Composites - Ductile Concrete for Structures	Victor C. Li
51	D - CASE Business Practices	Process and Organize your Email to Increase Productivity	Sally Mc Ghee
53	D - Spotlight	Bigelow Chapel	
56	D - Great Achievements	America's Poet Laureate of Technology - Duke University Professor Henry Petroski	Richard G. Weingardt, P.E.
60	D - Product Watch	Post-Tensioned Masonry Meets Design Challenges	Edward L. Freyermuth, CCCM

## August 2006 - Light Gauge Steel

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7	Editorial	Communication...	Greg Robinson
8	InFocus	The 'Art' of Structural Engineering	John Mercer, Jr., P.E.
10	C - Building Blocks	Innovative Blast Resistance System - Recent Advances in the U.S. Department of State's Blast Resistant Steel Stud Curtain Wall Technique	Russ Norris and Don Moffett
12	C - Construction Issues	Innovative Mid Rise Construction- Steel Stud Walls with Hollow Core Plank Floor System	Nabil A. Rahman, Ph.D., P.E. and Michael Booth
16	C - Codes and Standards	Removing the Guesswork - Cold-Formed Steel Framing Design	Roger A. LaBoube and Jay W. Larson
20	Feature	Award Winning Constructability - Lansing Community College	David I. Ruby, P.E., S.E., SECB
27	C - Structural Forum	Building Façade Inspections - One Engineer's Opinion	Craig Barnes, P.E., S.E.
30	C - Lessons Learned	Building for Extreme Events - Lessons Learned from Hurricane Katrina	William L. Coulbourne, P.E.
32	Feature	The Good, the Bad, and the Inevitable – Structural Condition Assessments The Good - Structural Condition Assessments The Bad - Catastrophic Events - Strategies for Structural Condition Assessments of Damaged Buildings and the Inevitable - Assessing Liability - Key Legal Aspects of Structural Condition Assessments	Robert T. Rayay, Ph.D., P.E. David B. Peraza, P.E. Michael Zetlin and Chirs Fladgate
44	Feature	FM Global Test Center	David Odeh
50	C - Structural Design	Dynamic Issues Drive Curtain Wall Design	Ken Brenden
53	D - Code Updates - Pt 1	The ASCE 7-05 Reformat Project	Susan M. Dowty, S.E.
57	D - Code Updates Pt 2	ASCE/SEI 7-05 - General Seismic Design Requirements for Buildings	John D. Hooper, P.E., S.E.
62	D - Code Updates - Pt 3	Seismic Requirements for Wood Building Design - Recent Changes to ASCE 7 and IBC	Philip Line, P.E. and James E. Russell, M. EERI, P.E.
68	D - Product Watch	New R38 Thermal Steel Stud Wall System LEEDs the Way	H. David Jeter, P.E., S.E.

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## September 2006 - Restoration & Renovation

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7	Editorial	Cooperation 2006	Ronald F. "Rawn" Nelson, S.E.
8	InFocus	The Significance of September 11, 2001	Jon A. Schmidt, P.E., SECB
11	C - Structural Failures	Glulam Beam Repair/Reinforcement - Tinora High School, Defiance, Ohio	Gary W. Gray, P.E. and Paul C. Gilham, P.E.
15	C - Building Blocks	Metal Roofing - A Primer for Engineers	Alexander Newman, P.E.
19	C - Structural Design	Structural Repairs Stabilize a Modernist Church	John F. Vincent, P.E.
22	C - Codes and Standards	Relationship of the NEHRP Provisions and 2006 IBC	Ronald O. Hamburger, S.E., SECB
27	Feature	Linda Hall Library	Michelle Lahey
30	C - Outside the Box	How to Transport a 2,000 Year Old Mosaic	Craig E. Barnes, P.E., SECB
34	Feature	Restoration of Egyptian Monuments	David T. Biggs, P.E., Hon. M. ASCE
38	C - InSights	Building Information Modeling - A Structural Engineering Perspective	James G. Jacobi, P.E.
40	Feature	St. Mark's Church - Historic Restoration	Mark K. Howell and Tim Crawford
44	C - Structural Forum	New Requirements for Old Buildings - IBC Provisions on Existing Building Renovations and Alterations	David C. MacGregor, P.E. and Gregory J. Riley, P.E.
48	C - Construction Issues	150 Tremont Street	Craig Barnes, P.E., S.E. and Steve McDermott
51	D - Structural Economics	Repair or Replace? That is the Question.	Scott R. Witthoft, P.E. and Randall W. Poston, Ph.D., P.E., FASCE, FACI
54	D - Great Achievements	Creator of the "Structural Art" Vernacular - David P. Billington	Richard G. Weingardt, P.E.
57	D - Spotlight	2006 Walter P. Moore, Jr. Award - Lawrence G. Griffis, P.E.	

## October 2006 - Bridges

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8	InFocus	The New Structural Design Paradigm	Richard L. Hess, S.E., SECB
11	C - Structural Practices	As Easy As "ABC" - Accelerated Bridge Construction Techniques for Large Steel Orthotropic Deck Bridges	Carl Huang, P.E., Alfred R. Mangus, P.E. and Jay Murphy
16	C - Structural Forensics	Evaluation of Structural Damage - Reinforced Concrete Arch Culvert	Steven J. Smith, Ph.D., P.E., Terry M. Sullivan, P.E., Jeremiah R. Nichols, P.E., Honggang Cao, P.E., Michael G. Carfagno, P.E., and Larry P. DeRoo, P.E.
22	C - Codes and Standards	International Building Code: More Options with Greater Opportunity for Wood-Frame Design	Sam Francis
26	C - Construction Issues	Replacing the Kansas City "Triangle" Urban Interchange	Bakul Desai, P.E., and Frank Blakemore, P.E.
29	Feature	Skybridge at Lincoln Square	Dennis Baerwald, P.E., S.E., Narong Trongtham, P.E., S.E., and Darren Johnston, P.E.
32	C - Structural Forum	The Big Dig... The Big Embarrassment - One Engineer's Opinion	Craig E. Barnes, P.E., SECB
34	Feature	"Gateway" Scores Touchdown - Modified Tied Arch Bridge is Detroit's Newest Icon	Muthiah Kasi, P.E., S.E., CVS and Ihab Darwish, Ph.D., P.E., S.E.
38	Feature	Steel Pipe Trusses - Innovative Bridge in Arizona to Carry Light Rail	Dan Heller, P.E. and Gary Gardner
42	C - Practical Solutions	Unique and Effective Sampling Method Saves Money and Time - Bridge Post-Tensioning Inspection, Assessment and Evaluation Project	Jerry Frost, P.E., MS, MBA, Troy Madlem, P.E., Don Kline, P.E. and John Crigler, P.E.
46	D - CASE Business Pract.	Re-Recruiting - The Best Strategy for Keeping Your Best Employees	Jay P. Rammes, CPA
50	D - Great Achievements	Charles Ellet, Jr. - A True Genius	Dr. Frank Griggs, Jr., PE.
54	D - Structural Updates	Bridging the Gaps	Dennis C. Gowins, P.E. and William C. Clawson, P.E., Ph.D.
57	D - Spotlight	Arthur Ravenel, Jr. Bridge - Outstanding Project Award Winner	Michael Abrahams

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## November 2006 - Steel

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7	Editorial	One-Voice Initiative... it is Working!	Greg Robinson
8	InFocus	Sensible Security	Jon A. Schmidt, P.E., SECB
11	C - Structural Practices	Fire Events – Building Design for Extreme Events	Matthew A. Johann, MSc and Brian J. Meacham Ph.D., P.E.
16	C - Structural Design	Take a Few Moments to Do It Right	James M. Lucas, P.E.
24	C - Codes and Standards	Connection Design in the New AISC Manual - Part 1- Changes to the 2005 Specification	William A. Thornton and Larry S. Muir
28	C - Building Blocks	History of Cold Formed Steel	Don Allen, P.E.
35	Feature	Maximizing the Impact of Constructability - Case Study of Mercy Health Partners' St. Vincent Regional Heart Center	David I. Ruby, P.E., S.E., SECB and Jay Ruby, P.E.
40	C - Practical Solutions	What are the Boundaries on Wind Testing?	David T. Biggs, P.E., Hon. M. ASCE
42	C - Historic Structures	The Restoration of Texas Courthouses	Stephen H. Lucy, P.E.
47	Feature	The Burj Dubai Tower – Wind Tunnel Testing of Cladding and Pedestrian Level	Peter A. Irwin, William F. Baker, Stan Korista, Peter A. Weismantle, and Lawrence C. Novak
52	Feature	Condition Assessment of Structures	Robert S. Vecchio, Ph.D., P.E.
58	C - Structural Forum	What's Wrong with Steel Drawings? - February 2006 STRUCTURE® magazine	Lawrence R. Chute, P.E., S.E. and Robert Hazelton
60	C - Structural Forensics	Failure Trends - Studying Typical Patterns in Building Failures	M. Kevin Parfitt, P.E.
62	C - Construction Issues	Leverage Value from Up-Down Construction	Blake D. Patsy, P.E., S.E. and Nathan A. Ingraffea, P.E., S.E.
65	D - Professional Issues	Quality Procedures for Shop Drawings...	Jack Metcalfe
66	D - From Experience	Detailing to Prevent Progressive Collapse Without Breaking the Bank	Jim DeStefano, P.E.
68	D - Code Updates	Load Combinations Lead to Efficiencies - LRFD versus ASD for Wood Design	John "Buddy" Showalter, P.E. and Dr. Robert J. Taylor, P.Eng.
70	D - CASE Business Practices	Should Your Client Be a Named Insured?	Tom Owens
73	D - Spotlight	Station Place Parking Garage	Stuart Finney, P.E.
79	D - Grt Achievements	John A. Roebling	Dr. Francis Griggs, Jr., PE.

## December 2006 - Soils & Foundations

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7	Editorial	Temporary Structures Failures... Designers Beware!	Robert T. Ratay, Ph.D., P.E., FASCE
8	InFocus	Success through Communication	John Mercer, Jr., P.E.
10	C - Codes and Standards	Snow Provisions in ASCE 7-05	Prof. Michael O'Rourke, P.E., Ph.D., Peter Mazikins, P.Eng. and John "Buddy" Showalter, P.E.
13	C - Structural Design	A Better Base	Paul A. Rouis, III, P.E.
16	C - Construction Issues	Getting to the Bottom of Underpinning	David B. Peraza, P.E.
21	Feature	Seismic Site Classification for Structural Engineers	Dominic Kelly
25	Feature	Recent Developments in Post-Earthquake Investigations - A Geotechnical Perspective	Jon Wren, Ph.D., P.E.
31	Feature	Innovative Foundations - Historic Niagara Falls Canal Lies Beneath New 26 Story Hotel	Robert E. Stoller, P.E., S.E.
35	Feature	The Seattle Pine Street Tunnel	Bruce Erickson, P.E., S.E.
39	Feature	Excellence in Structural Engineering - NCSEA 9 <sup>th</sup> Annual Awards Program	
46	Feature	Concrete Diaphragm Walls... One Size Does Not Fit All - Considerations for Design and Construction	Wayne A. Chadbourne, P.E. and David W. Finocchio, P.E.
51	C - Engineer's Notebook	Interpretation of Boring Logs for Structural Engineers	Richard P. Weber
55	D - InSights	Special Inspection - Is it your best choice for achieving construction quality?	Brian Miller
57	C - Structural Practices	Bridge Scour & the Structural Engineer	Jean-Louis Briaud, Ph.D., P.E. and Beatrice E. Hunt, P.E.
62	D - Risk Management	Risk Management Defined	John Tawresey, S.E.
64	D - Noteworthy	From the Kansas Farm to the Engineering Hall of Fame - Walter E. Hanson, P.E., S.E., LHD	Janice A. Petterchak