

**2007**

# STRUCTURE® Annual Article Index

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## January 2007 - Concrete

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7	Editorial	Scope Creep and the Silent Erosion of Profit	Edward W. Pence, Jr., P.E., S.E., F.ASCE
8	InFocus	The Future of Structural Engineering Education	Jon A. Schmidt, P.E., SECB
10	C - Education Issues	Failures Education – The Key to Better Engineering Design	M. Kevin Parfitt and Elizabeth E. Parfitt
13	C - Outside the Box	Architects Are From Plato	Erik Anders Nelson, P.E., S.E.
17	C - Structural Forum	Client, Teammate or Nemesis?	Wayne Vandenberg, P.E.
18	C - Professional Issues	Project Specific Peer Review Guidelines	D. Matthew Stuart, P.E., S.E., F.ASCE, SECB
20	C - Building Blocks	High-Performance Fiber Reinforced Concrete in Earthquake-Resistant Construction - What Can We Gain?.	Gustavo J. Parra-Montesinos
26	C - Structural Design	Concrete Detailing for Blast	Elizabeth Agnew, MS, Shalva Marjanishvili, Ph.D., P.E. and Sharon Gallant, MS, S.E.
30	Feature	Repair of Duck Creek Culvert	Terry M. Sullivan, P.E., Peter Kolf, S.E., Michael G. Carfagno, P.E., Steven J. Smith Ph.D., P.E. and Jeremiah R. Nichols, P.E.
34	Feature	The Pentagon Lightwell Walls - Repair, Rehabilitation and Protection for the Next 50 Years.	Rick Edelson
38	C - Structural Practices	Blast Events – Building Design for Extreme Events	J. David Hadden, Matthew A. Johann, and Brian J. Meacham
42	D - InSights	New Concealed Connectors Bring More Options for Timber Structures	David Moses and Robert Malczyk
45	D - Code Updates	ACI 360R-06 Brings Slabs on Ground Design into the 21 <sup>st</sup> Century	Arthur W. McKinney, P.E., S.E., FACEC
48	D - Product Watch	Self-Consolidating Concrete - The Good, the Bad and the Ugly	Matthew D. D'Ambrosia and David A. Lange, Ph.D.
52	D - Great Achievements	The Imaginative Engineer – Peter Rice (1935-1992)	Lorraine Lin, Ph.D., P.E. and Bruce Danziger, S.E.
58	D - Spotlight	Hilltop Arboretum - Louisiana State University	

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7	Editorial	Are We Relying Too Much on Computers?	Edwin T. Huston, P.E., S.E.
8	InFocus	Bridge Inspection	Brian J. Leshko, P.E.
12	C - Structural Practices	Fireproofing Steel Structures - Restrained vs. Unrestrained Assemblies	Michael Giardinelli
16	C - Building Blocks	Structural Glued Laminated Timber Arches	Jeff Linville
20	C - Lessons Learned	All Aboard!! New Life for a Ferry Ramp	Benny K. Louie, P.E.
23	C - Structural Design	Design of the Structural Steel Members Subject to Combined Loading - The Latest	Abbas Aminmansour, Ph.D.
26	C - Historic Structures	Adaptive Reuse of Existing Structures - Los Angeles Structural Design Requirements for Conversion to Joint Living and Work Quarters	J. Gabriel Linares, P.E.
29	Feature	Constructability Part IV – Constructability Drives Structural Design at Ford Field	David I. Ruby, P.E., S.E., SECB and Brian M. Volpe, P.E., S.E.
34	Feature	The Newark Arena – Future Home of the New Jersey Devils	Chris Christoforou, P.E., Robert Treece, P.E., Armino Monteiro, P.E. and Tom Scarangelo, P.E.
38	Feature	The New Nationals Ballpark - Design-Build Collaboration at Its Finest	Mark Tamaro, P.E., Tom Scarangelo, P.E., and Dimitrios Frantzis, P.E.
42	Feature	A New Suspension Bridge at the Historic Tacoma Narrows Site	Joe Viola, P.E. and Tom Spoth, P.E.
46	Feature	A Moving Landmark – The Colonel Patrick O'Rorke Lift Bridge	David Thurnherr, P.E. and C. Michael Cooper, P.E.
52	C - Codes and Standards	Connection Design in the New AISC Manual, Part 2 - Changes to the 13 <sup>th</sup> Edition Manual	William A. Thornton and Larry S. Muir
54	D - InSights	Innovations in Cold-Formed Steel Framing	Don Allen, P.E.
58	D - Risk Management	The Responsibilities of a Structural Engineer	John G. Tawresy, S.E.
61	D - Great Achievements	John Alexander Low Waddell – Genius of moveable bridges	Richard G. Weingardt, P.E.
66	D - Spotlight	Puerto Rico Convention Center	



## March 2007 - Specialty & Nonbuilding Structures

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7	Editorial	Policy Statement 465 – A Golden Opportunity for Structural Engineering	Kenneth J. Fridley, Ph.D.
8	InFocus	Risk-Based Design	Jon A. Schmidt, P.E., SECB, BSCP
9	C - Structural Forum	The Case for an Engineer of Record for a Metal Building System	W. Lee Shoemaker, P.E., Ph.D.
13	C - Structural Forensics	Case Study of Pipe Support Failures	Sam Kannappan, P.E.
14	C - Structural Practices	Severe Events – Facing the Challenge	Joe Kallaby, P.E., S.E.
19	C - Structural Design	Blast Resistant Bridge Piers	Michel Bruneau, Ph.D., P.Eng., Shuichi Fujikura and Diego Lopez-Garcia, Ph.D.
22	C - Codes and Standards	Steel Tanks- Seismic Design of Ground Supported Liquid Storage Welded Steel Tanks	Ashwin Ranga Swamy, P.E.
28	Feature	Climbing High – Structural Engineers Reach New Heights	Madison J. Batt, P.E., S.E.
34	Feature	The Portland Aerial Transportation, Inc.	Murat Melek, Ph.D., Edwin Shlemon, P.E., S.E., Atila Zekioglu, P.E., S.E. and Steve Carter
38	Feature	Design and Construction of Haifa Port Expansion	Bill Papis, P.E.
43	C - Building Blocks	Wood Plastic Composites - Structural Design and Applications	Donald A. Bender, P.E., Michael P. Wolcott and J. Daniel Dolan, P.E.
48	C - Lessons Learned	Corrosion Avoidance with New Wood Preservatives	Samuel L. Zelinka and Douglas R. Rammer
51	D - Talking Points	Visibility: Getting and Keeping It - Part 1 - Things Worth the Writing	Richard G. Weingardt, P.E.
54	D - Spotlight	Computer Modeling of Collapse of World Trade Center Towers	Mehdi S. Zarghamee, M. AISC
58	D - Great Achievements	Octave Chanute	Frank Griggs, Jr., Ph.D, P.E., P.L.S.

## April 2007 - Concrete

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7	Editorial	CASE RMP – Not your Grandfather's Risk Management Program!	Edward W. Pence, Jr., P.E., S.E., FASCE
8	InFocus	CAD – How It Has Changed The Way We Think	Greg Schindler, P.E., S.E.
10	C - Structural Design	Designing the Cost-Effective Slab-on-Ground - Least Likely to Crack or Spall	Nigel Parkes
14	C - Structural Practices	Think Formwork – Reduce Costs	Robert H. Lab, Jr., P.E.
17	C - InSights	Rehabilitation of Concrete Structures - Carbon Fiber Reinforced Polymer (CFRP)	Barzin Mobasher, Ph.D., P.E. and Brian Raji, P.E., S.E.
19	C - Technology	Transforming the Delivery Process Using Building Information Modeling	James G. Jacobi, P.E.
22	Feature	Blast Resistant Design of Reinforced Concrete Structures	Dennis M. McCann, Ph.D., P.E. and Steven J. Smith, Ph.D., P.E.
28	Feature	Seismic Performance and Design Requirements for High-Rise Concrete Buildings	Joe Maffei, S.E., Ph.D. and Noelle Yuen, S.E.
33	Special Section - Education	The Basic Structural Education	
34		Basic Education for a Structural Engineer - Course Content	
37		The 2006 Education Survey Results Summary - List of Schools offering the Full Curriculum	
38		The 2006 Education Survey Results by School - Listing of Schools That Do Not Have the Full Curriculum	
40		Is Four Years Enough?	Mary Goodson, S.E., SECB and Mark Chrzanowski, P.E.
42		Mentoring Engineering Graduates	David Adams, P.E., S.E.
46		Collaborative Engineering in the Classroom	Kevin Dong, S.E. and Thomas Leslie, AIA
50		Web-Enhanced Teaching (WET) Tools for Steel Educators	Judy Liu, Ph.D.
52		Incorporation of Writing Assignments into Structural Design Courses	John T. DeWolf, Ph.D., P.E.
54		Embedding Communication Education within the Civil Engineering Curriculum - A Case Study at Northeastern University	Peter G. Furth, Ph.D.
57	C - Building Blocks	New Opportunities for Fiber Reinforced Glued-Laminated Beams	Paul C. Gilham, S.E., and Thomas Williamson, P.E.
61	D - Product Watch	New Carbon Fiber Reinforcement Advances Sandwich Wall Panels	Harry Gleich, P.E.
65	D - Risk Management	Risk Management – The Simple Things to Do	John Tawressey, S.E.
68	D - Spotlight	Oklahoma History Center - Oklahoma City, Oklahoma	Brad Thurman, P.E., CPSM
69	D - Great Achievements	Anton Tedesko Father of Thin-shell Concrete Construction in America	Richard G. Weingardt, P.E.



## May 2007 - Masonry

Pg #	Magazine Section	Article Title	Author
7	Editorial	What are we doing about our future...	Greg Robinson
8	InFocus	Intelligent Design	Jon A. Schmidt, P.E., SECB
9	C - Structural Forum	Who is Responsible for the Support of Nonstructural Elements?	Richard Hess, S.E., SECB
13	C - Structural Design	The Future of Masonry Design	Richard E. Klingner, Ph.D., P.E.
17	C - Construction Issues	Special Inspections & Masonry - Part 1 - Plan ahead for success	Christopher N. Latreille, P.E.
20	C - Building Blocks	Resistance of Historic Unreinforced Masonry Walls to Air-Blast Loads	Jessica Godinho, MS, Elizabeth Agnew, MS, and Shalva Marjanishvilli, Ph.D., S.E.
24	C - Historic Structures	Common Threads – Structural Issues in Historic Buildings	Craig M. Bennett, Jr., P.E.
27	C - Technology	Computer Technology in the Practice of Structural Engineering - Past, Present and Future	Jim DeStefano, P.E.
31	Feature	Seismic Retrofit of the African American Unity Center Church	Dilip Khatri, Ph.D., S.E.
34	Feature	Cost-Competitiveness of Masonry Construction	Richard E. Klingner, Ph.D., P.E.
39	Feature	Old School Craftsmanship	Brian Rhodes, P.E.
42	C - Structural Practices	Building Design for Extreme Events - Natural Hazards	Andrew C. T. Thompson, P.E., Gayle Katzman, P.E. and Matthew A. Johann, MSc
46	C - Outside the Box	Participation Mystique	Erik Nelson, P.E., S.E.
49	C - Professional Issues	LRFD for Geotechnical Applications	John T. Christian, P.E., Ph.D.
54	D - Talking Points	Visibility: Getting and Keeping It - Part 2 - Things Worthy Reading	Richard G. Weingardt, P.E.
56	D - Spotlight	Mason Structure of Lexington, KY	

## June 2007 - Tall Buildings/High Rise

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7	Editorial	The Future of the Structural Engineering Profession	Jeff Asher, S.E., M.ASCE
8	InFocus	Existing Buildings and the Codes	Richard Hess, S.E., SECB
9	C - Historic Structures	Biodegradation of Untreated Wood Foundation Piles in Existing Buildings - Part 1 - Investigation	Milan Vatovec, P.E., Ph.D. and Paul L. Kelley, P.E.
14	C - Practical Solutions	Supplemental Damping and Using Tuned Sloshing Dampers	Jamieson K. Robinson P.Eng., Scott L. Gamble P.Eng., and Bujar M. Myslimaj Ph.D., P.Eng.
20	C - InSights	The Advanced National Seismic System - Structural Monitoring To Improve Understanding of Seismic Performance	William Leith, Ph.D.
22	C - Lessons Learned	Global Partnerships - International Design/Build Team Facilitates High-Rise Development in Trinidad and Tobago	James W. Case, P.E.
28	Feature	The Russia Tower, Moscow	Carrie L. Warner, S.E., P.E., and Robert A. Halvorson, S.E., P.E., F.IStructE
32	Feature	The Shanghai World Financial Center - Welding Brilliant Architecture To Imaginative Engineering	Leslie E. Robertson, Hon. M.ASCE, NAE, F.IStructE, C.E., P.E., S.E. and Saw Teen See, Hon. M.ASCE, C.E., P.E.
37	Feature	Rebirth – Seven World Trade Center	Bart Sullivan, P.E.
40	Feature	Building Envelope Solutions – Seattle Art Museum/ Washington Mutual Center	Jeremy Mucha
46	Feature	An Enduring Solution – WaMu Center/Seattle Art Museum Expansion	E. Douglas Loesch, P.E., S.E.
50	Feature	Constructability Specialists: Great Synthesizers	David I. Ruby, P.E., S.E., SECB, F.ASCE
54	C - Structural Forum	To Peer Review or Plan Review, That is the Question	D. Matthew Stuart, P.E., S.E., F.ASCE, SECB
56	D - From Experience	Fitch Plate Beams - Design Guide	Jim DeStefano, P.E.
58	D - Risk Management	Business Practice and Risk Management	John Tawressey, S.E.
60	D - Great Achievements	Skyscraper Superstar – Leslie Earl Robertson	Richard G. Weingardt, P.E.
66	D - Spotlight	Sue and Bill Gross Women's Pavilion – Hoag Memorial Hospital Presbyterian, Newport Beach, California	



## July 2007 - Concrete

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7	Editorial	Moving Forward Together Takes Everyone's Help	Chris D. Poland, S.E.
8	InFocus	When the Buck Stops with You	Jon A. Schmidt, P.E., SECB
12	C - Building Blocks	Fabric-Formed Concrete	Robert Schmitz, P.E., M.ASCE
16	C - Construction Issues	Innovative Mid Rise Construction - Steel Stud Walls with Hollowcore Plank Floor Systems - Revisited	Nabil A. Rahman, Ph.D., P.E. and David Wan, P.E.
19	C - Structural Economics	Current Trends in Economical Concrete Construction – Part 1: Floor Framing and Lateral Systems	Jim Delahay, P.E., and Brad Christopher, P.E.
23	C - Codes and Standards	Structural Concrete in Fire Exposures	Stephen Szoke, P.E.
26	C - Structural Testing	Forced Vibration Testing - An Earthquake Damaged Reinforced Concrete Building	John Wallace, Ph.D., P.E., FACI and Derek Skolnik, MS, Ph.D. candidate
32	D - InSights	5 Common Myths of Steel Design Debunked	Larry Muir, P.E.
35	Feature	Fiber Reinforced Polymers - Seismic Retrofit of the McKinley Tower	Mo Ehsani, Ph.D., P.E., S.E.
39	Feature	Façade Woes... to Wow!	David J. Mastay
42	Feature	The Otay River Bridge	Ben Soule, P.E. and Daniel Tassin, P.E.
47	Feature	FRP Strengthening of a Fire Damaged Industrial Plant	Peter Milligan, P.E.
50	C - Structural Forensics	Professional Practice of Forensic Structural Engineering - What Every Engineer Should Know	Robert T. Ratay, Ph.D., P.E.
55	C - Lessons Learned	Tested Guardrail Post Connections for Residential Decks	Joseph Loferski, Dustin Albright, and Frank Woeste, Ph.D., P.E.
60	D - Code Updates	Walls, Walls, Walls...	James E. Amrhein, S.E. and James S. Lai, S.E.
64	D - Product Watch	Post-Tensioning Revisited	John Crigler, P.E.
69	D - Great Achievements	Jacob Hays Linville	Frank Griggs, Jr., Ph.D., P.E., P.L.S.
75	D - Spotlight	Brady Street Bridge - Aesthetics on a Tight Budget	Yan Nenaydykh, P.E., Anil Kurian, P.E., and Marla Weiss

## August 2007 - Light Frame Construction

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7	Editorial	Are We Relying Too Much on Computers? - A Reprise	Edwin T. Huston, P.E., S.E.
8	InFocus	Changing Structural Engineering Education	Craig E. Barnes, P.E., SECB
9	C - Codes and Standards	Progressive Collapse Requirements - Cold-Formed Steel Load Bearing Construction	Nabil A. Rahman, Ph.D., P.E., Michael Booth and Gary Bennett
16	C - Practical Solutions	Hold Down Systems Key to Shear Wall Performance - Part 1 - Basics	Alfred D. Commins
20	C - Building Blocks	Insulating Concrete Form Design and Construction	Kelvin Doerr, P.E.
26	Feature	Frequently Asked Questions Regarding Cold-Formed Steel	Roger A. LaBoube, Ph.D., P.E.
29	Feature	Direct Strength Method for Cold-Formed Steel	Helen Chen, Ph.D., P.E., Benjamin Schafer, Ph.D., P.E., and Roger LaBoube, Ph.D., P.E.
35	Feature	The Great Chicago Flood - Analysis of Chicago's 2 <sup>nd</sup> Great Disaster	Jon Wren, Ph.D., P.E.
42	Feature	In the Eye of Ivan	Kurt Gustafson, S.E., P.E.
47	C - Structural Forum	Quality in Engineering Documents	Wesley G. Britson, P.E., S.E.
50	C - Technology	Getting to BIM	Scott Hammond
52	C - Structural Forensics	Gas Station Canopy Failures	Amir H. Farzaneh, P.E. and Vahid Louis Farzaneh, P.E.
54	C - Structural Design	Wood Truss Gable End Frames	Agron Gjinolli, P.E. and Jim Vogt, P.E.
59	D - Product Watch	The Evolution of Structural Composite Lumber	Renee Strand, P.E.
60	D - Design Updates	The New SDI Diaphragm Design Manual	Dong Li, P.E.
63	D - Code Updates	Structural Engineering Codes and Standards in the United States - An Overview	Cynthia L. Chabot, P.E.
64	D - Risk Management	The Structural Engineer Expert and the Code	John Tawresey, S.E.
66	D - InSights	Accelerated Bridge Construction	Brian J. Leshko, P.E.
68	D - Great Achievements	Stephen P. Timoshenko - Father of Engineering Mechanics in the U.S.	Richard G. Weingardt, P.E.

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## September 2007 - Restoration & Renovation

Pg #	Magazine Section	Article Title	Author
7	Editorial	Sustainable Design – New Opportunities for Innovation	Dirk M. Kestner, P.E., LEED® A.P.
8	InFocus	An Excellent Design Document	Jon A. Schmidt, P.E., SECB
10	C - Professional Issues	Disaster Preparation for Structural Engineers	Fred Nelson, S.E.
15	C - Practical Solutions	Hyperbolic Cooling Tower Column and Lintel Beam Protection	Kraig Tarou and Stan Boshart
21	C - Construction Issues	Special Inspections & Masonry - Part 2: Implementing the Program	Christopher N. Latreille, P.E.
28	C - Structural Practices	Severe Hurricanes – Facing the Challenge - Part 1 - Dual Concept of Strength and Safety	Joe Kallaby, P.E., S.E.
31	Feature	Dunkin' Donuts Center – Renovation and Expansion	Jimmy Liu, P.E., S.E., Gary Storm, P.E., and Steve Duethman, AIA
35	Feature	A Cold Night in Georgia - Renovation of the First Baptist Church of Atlanta	Nebil Sedki, P.E.
38	Feature	Masterpiece of the Midwest - The Restoration of the West Baden Springs Hotel	Graeme Sharpe
42	Feature	Reconstructing the Bernie King Pavilion	Leonard J. Morse-Fortier, Ph.D., P.E.
45	C - Engineer's Notebook	Antiquated Structural Systems Series	D. Matthew Stuart, P.E., S.E., FASCE, SECB
48	Feature	Remediation of Massachusetts Institute of Technology's W33 Cage Building	Jeff D. Langlois, P.E., Milan Vatovec, Ph.D., P.E., Philip L. Westover, P.E., and Randall Preston
50	C - Building Blocks	Elegant Solution – Viscous Dampers Allow Retail and Hospitality to Share Space and Energize a Historic Building	Blake Patsy, P.E., S.E., and Bryan Starr, P.E., S.E.
53	C - Historic Structures	Biodegradation of Untreated Wood Foundation Piles in Existing Buildings - Part 2 - Deterioration Mechanisms	Milan Vatovec, Ph.D., P.E., and Paul L. Kelley, P.E.
58	C - Structural Forensics	The Forensic Expert Consultant/Witness - Some Things To Know	Robert T. Ratay, Ph.D., P.E.
61	D - Legal Perspectives	Sorting Out Liability after a Disaster - A Blueprint is Key in Minimizing Exposure	Julie B. Negovan, Esq. and John F. Mullen, Esq.
62	D - InSights	Corrosion Protection in High Performance Concrete	Arnie Rosenberg, Ph.D.
64	D - Great Achievements	Norway's Gift to Chicago - Thomas G. Pihlfeldt, 1858-1941	Peter Kocsis, S.E., P.E.
67	D - Spotlight	Dr. Neil Hawkins - Recipient of SEI's Dennis L. Tewksbury Award	

## October 2007 - Bridges

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7	Editorial	Influencing Legislation at the National Level - We Have an Obligation to Get Involved	Chris D. Poland, S.E.
8	InFocus	Life Long Learning	John Mercer, Jr., P.E., SECB
9	C - Structural Rehabilitation	Electrochemical Treatment	J. Christopher Ball
14	C - Historic Structures	Preservation of Historic Gilbertville Covered Bridge	S. D. Daniel Lee, P.E. and Matthew Anderson, MS
16	C - Structural Testing	Go Live! - Live Load Test Proves Seattle Floating Bridge is Ready for Light Rail	Scott Kuebler, P.E., S.E.
20	C - Structural Economics	Current Trends in Economical Concrete Construction - Part 2: Cost Savings and Formwork	Jim Delahay, P.E. and Brad Christopher, P.E.
22	Feature	Restoration of a Covered Bridge over Troubled Waters... And Underneath Calm Ones	Jim Barker, P.E.
27	Feature	Structural Design for an Automated People Mover - Hartsfield Jackson International Airport	John Heath, P.E. and Gary B. Lineback, P.E.
30	Feature	One-of-a-Kind Design – The New San Francisco-Oakland Bay Bridge Self-Anchored Suspension Span	Marwan Nader, Ph.D., P.E. and Brian Maroney, Dr. Engr., P.E.
36	Feature	Emerging Timber Bridge Program in Brazil - A Five-Year Report	Prof. Carlito Calil, Jr., LaMEM, SET, EESC, USP
40	C - Structural Design	Open for Business – Precast Helps Milwaukee-Area Mall Meet Tight Construction Schedule	Roger Becker, P.E., S.E.
42	C - Building Blocks	Anchoring Blast-Resistant Windows	Stephen P. Ward, Eur Ing, CEng, MICE, MIEExpE
46	C - Outside the Box	Infinite Load Path?	Erik Nelson, P.E., S.E., and Brandon Kotulka, P.E.
50	D - Great Achievements	Horace King – From Slave to Master Bridge Builder	Richard G. Weingardt, P.E.
54	D - Legal Perspectives	The Care and Feeding of an Expert Witness - Watch Out, They May Bite!	Julie B. Negovan, Esq. and Josh M. Greenbaum, Esq.
57	D - Risk Management	Measure Twice, Cut Once	John Tawresey, S.E.
59	D - Spotlight	Arapaho Road Bridge Blends Steel Arch with Prestressed Beams	Cliff R. Hall, P.E.



## November 2007 - Steel

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7	Editorial	How do we become great?	Ed Huston, P.E., S.E.
8	InFocus	Engineering Knowledge	Jon A. Schmidt, P.E., SECB
9	C - Lessons Learned	Avoiding Structural Failures During Construction - Part 1	David B. Peraza, P.E.
13	C - Structural Performance	Analysis of Steel Columns for Air-Blast Loads	Jessica Godinho, MS, Arturo Montalva, P.E., and Sharon Gallant P.E., S.E.
16	C - Practical Solutions	Strap and Tie-Down Systems - Part 2 - A Critical Evaluation	Alfred D. Commins
20	C - Education Issues	Hands-On Structural Steel Education	Steve Kurtz, Ph.D., P.E.
26	C - Structural Practices	Severe Hurricanes - Facing the Challenge - Part 2	Joe Kallaby, P.E., S.E.
30	C - Building Blocks	Damped Link Elements in Coupled Truss or Wall System	Ahmad Rahimian, Ph.D., P.E., S.E.
37	Feature	Structural Form in Architecture - From Pre-Historic Stickdomes to State-of-the-art Gridshells	Horst Berger
42	Feature	Single Point of Failure - How the Loss of One Column May Have Led to the Collapse of WTC 7	Ramon Gilsanz, S.E., and Willa Ng
47	Feature	Twisting Steel and Bending the Imagination	Kevin Legenza
50	D - Insights	Bonded Anchors - A Convenient Solution or Potential Liability	Donald F. Meinheit, P.E., S.E., Richard W. Wollmershauser, P.E., FACI, and John E. Pearson, P.E., S.E.
53	C - Construction Issues	Welding Documentation	Duane Miller P.E., ScD and Tom Schlafly
61	C - Codes and Standards	SEAW's Handbook of a Rapid-Solutions Methodology™ for Wind Design	Ed Huston, P.E., S.E.
66	C - Structural Design	Subduing Vibration in Laboratory Buildings	Frank Lancaster, P.E., RA. LEED® AP
70	D - From Experience	Communication Breakdown - It's Always the Same...	D. Matthew Stuart, P.E., S.E., FASCE, SECB
72	D - Great Achievements	Horst Berger	Jim DeStefano, P.E.
80	D - Code Updates	MBMA Releases Revised Metal Building Manual - New Publication Provides Expanded Tools and Data to Benefit Engineers	Lee Shoemaker, Ph.D, P.E.
82	D - Spotlight	The Denver Art Museum	

## December 2007 - Soils & Foundations

Pg #	Magazine Section	Article Title	Author
7	Editorial	The Future of the Profession Depends on You!	Brent Nuttall, P.E., S.E.
8	InFocus	The Means & Methods of Retrofit Construction	Richard L. Hess, A.E., S.E., SECB, FASCE, CSI, CCCA
9	C - Construction Issues	High Capacity Minicaissons in NYC	Lawrence F. Johnsen, P.E., Joseph A. Pastore, and Felix Ferrer, P.E.
15	C - Historic Structures	Biodegradation of Untreated Wood Foundation Piles in Existing Buildings - Remedial Options - Part 3 of 3	Milan Vatovec, P.E., Ph.D., and Paul L. Kelley, P.E.
18	C - Engineer's Notebook	Antiquated Structural Systems Series - Part 2	D. Matthew Stuart, P.E., S.E., FASCE, SECB
21	C - Structural Forensics	Solving the Puzzle - A Case Study of Building Distresses Due to Foundation Movement	Xing Shi, Ph.D. and Mark Holland, P.E.
23	C - Codes and Standards	FEMA 550 - Recommended Residential Construction for the Gulf Coast	David Low, P.E.
28	Feature	A Walk Around the Block	Suzanne Provanzana, S.E., P.E., and Sara Knight, P.E.
32	Feature	Geotechnical Design and Construction Aspects of the CityCenter	Christopher Zadoorian, G.E., Susan Kirkgard, C.E.G., and Jaime Albornoz, P.E.
37	Special Section	Excellence in Structural Engineering - NCSEA 10 <sup>th</sup> Annual Awards Program	
45	C - Structural Design	Code Changes Affecting Post-Installed Concrete Anchor Design	Christian Fogstad, P.E, and Brian Gerber, P.E., S.E.
49	D - Code Updates	Creating Acceptance for Helical Foundations	Howard A. Perko, Ph.D., P.E.
52	D - Legal Perspectives	What's the Buzz About BIM? - Developing a Workable Contractual Structure for BIM Projects	Beth Andrus and William Bender
56	D - Business Practices	Are You Really Covered by Your Insurance?	John F. Mullen, Esq. and Matthew Siegel, Esq.
58	D - Professional Issues	Understanding Your Geotechnical Engineer or Getting Your Geotechnical Engineer to Understand You	John Schuler, P.E., M.ASCE, and Andrew Zickler, P.E.
60	D - Risk Management	Reduce Risk by Communication - You're Involved Even If You're Not Involved	Trailer Martin
62	D - Great Achievements	Nathan M. Newmark - Structural Dynamics Innovator Extraordinaire	Richard G. Weingardt, P.E.