

NASCC: THE STEEL CONFERENCE



**BACK
IN
ACTION!**

March 23–25, 2022

DENVER



aisc.org/nascc



NASCC:
THE STEEL CONFERENCE
2019 | St. Louis

WE'RE BACK!



NASCC:
The Steel Conference is back—
live and in-person—in Denver
on March 23–25, 2022.

The Steel Conference is the premier event for everyone involved in the design and construction of fabricated steel buildings. We offer more than 200 technical sessions (**you can earn up to 21 PDHs**), a giant exhibition hall with more than 235 exhibitors, and networking with more than 5,000 colleagues, leading designers, top fabricators, and prestigious professors.

This year's event also incorporates the World Steel Bridge Symposium, QualityCon, the NISD Detailing Conference, and SSRC's Annual Stability Conference.

And while the main conference kicks off Wednesday morning, for those who can arrive on Tuesday we're offering two informative tours (your choice of a wind tunnel lab or a state-of-the-art steel service center including a giant automated material handling system) and two four-hour short courses (SC1 is an intense look at nonlinear structural analysis while SC2 focuses on designing cross-frames for bridges).

One registration fee includes all of the main conference activities: technical seminars, the Wednesday evening Welcome Reception, keynote addresses, lunch in the exhibit hall on Wednesday and Thursday, and the famous conference dinner!

What makes us different?

Unlike some other conferences that have a call-for-papers and present dry academic content, **The Steel Conference's planning committee selects topics and then seeks out the top experts and presenters.** Want to get a taste of what a conference session is like? Visit aisc.org/educationarchives and watch one of the more than 2,000 sessions from previous conferences that we've posted.

Sessions are designed with the practicing professional in-mind. Our goal is to provide information and skills that you can immediately put into use.

Who attends?

The last in-person conference had nearly 5,500 attendees, including structural engineers, architects, steel fabricators, detailers, erectors, academics, students, and product venders/service providers. The audience ranges from professionals who graduated just a few months earlier to many of the top principals at the nation's leading structural engineering firms. Our sessions are designed to cover all aspects of steel design and construction, from basic review sessions to advanced methodologies.

What is the World Steel Bridge Symposium?

The World Steel Bridge Symposium (WSBS) brings together bridge design engineers, construction professionals, academics, transportation officials, fabricators, erectors, and constructors to discuss and learn state-of-the-art practices for enhancing steel bridge design, fabrication and construction techniques.

What is QualityCon?

Industry experts share the latest on both the principles of quality management and specifics on how improving your quality processes will boost your bottom-line. Whether you are AISC-certified, a fabricator, an erector, or just want to learn more about quality systems, these sessions are for you! You will leave QualityCon with ideas and tools that will bring immediate value to your fabrication facility or erection jobsite.

What is the NISD Conference on Steel Detailing?

The National Institute of Steel Detailing has developed a 13-session program specifically for detailers. The program parallels the NISD Certification program and provides practical information to help make you a better detailer!

What is the SSRC Annual Stability Conference?

The Structural Stability Research Council's Annual Stability Conference has been held in conjunction with the Steel Conference since 2001. In addition to 13 sessions with more than 60 papers, the SSRC Conference includes the Beedle Award and MAJR Medal presentations. SSRC also holds its annual meeting immediately prior to the Stability Conference.





Don't miss
our fabulous
keynote speakers!



Gerry O'Brion is a strategy and branding expert who has worked on several billion-dollar brands (including Procter & Gamble, Coors Brewing Company, Quiznos, and Red Robin) and distilled that experience into a framework that will challenge your thinking about why customers buy and how they make referrals. Wednesday participants will learn a framework in innovation and influence that will show you how to become the #1 choice in crowded industries. Gerry will show you how to create disruptive strategies and messaging to attract your ideal customers and how to leverage change to create unique competitive advantages that make you the clear choice.



Carol Drucker, SE, PE, P.Eng., is a principal at Drucker Zajdel Structural Engineers and this year's recipient of the AISC Speaker Award, speaking on Thursday. Engineering is continually evolving with new skills and techniques to learn. For decades Carol Drucker has been presenting at Steel Conferences. Carol will highlight her greatest hits—along with what we got right and what we learned since. Additional topics for creating success will include teamwork, mentorship, and strategies for developing client relationships.

Amit Kanvinde is the recipient of the 2022 T.R. Higgins Lectureship Award and will present "Column Base Connections: Research, Design, and a Look to the Future" on Friday and will share his findings from 15 years of research into the behavior, design, and structural interactions of various types of connections, including exposed, slab-overtopped, and embedded connections. The lecture will include prospective developments in base connection design, as well as insight into a revision of the AISC Design Guide 1: *Base Plate and Anchor Rod Design*.



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2022 | Denver



NASCC: THE STEEL CONFERENCE Mobile App

Put NASCC: The Steel Conference in the palm of your hand! Stay organized with the session schedule tool, navigate the exhibit hall, learn about exhibitors, and network with attendees during the conference with our mobile app, exclusively designed for The Steel Conference. Visit aisc.org/nascc to download the app in early 2022.

Make it social by networking with attendees and joining the conversation on Twitter and Instagram by using **#NASCC22 #AISC**

Registration and Housing

Registration opens Monday, January 10, 2022. Register early! Registration fees increase each week. Visit aisc.org/nascc to register and to book your hotel reservation.

Our official registration and housing partner is MCI USA. Visit aisc.org/nascc to book your discounted room in the conference block no later than March 16, 2022.

If you have questions about registration and/or housing, please contact MCI USA: 800.830.5812 (within the U.S.) 972.349.5930 (outside of the U.S.) nascc@mcievents.com

Pre-conference tours



Intsel Steel Service Center

Tuesday, March 22, 1:00 – 4:00 p.m.
(1-hour roundtrip transfer and 2-hour tour)

Cost: \$5 (limited to 40 attendees)

If you've never seen a modern steel service center/warehouse, you're in for a treat! Intsel's facility features nearly 20,000 tons of steel and one of the nation's largest automated material handling systems. The facility also provides pre-processing, including beam cut-to-length and plate cutting.

Tour CPP Wind Engineering's State-of-the-Art Laboratory

Tuesday, March 22, 1:30 – 5:30 p.m.
(2-hour roundtrip transfer and 2-hour tour)

Cost: \$5 (limited to 40 attendees)

Have you ever wondered what goes on in a wind tunnel testing facility? CPP Wind Engineering Consultants has one of the most advanced structural wind labs in the world, and you're invited to visit! As the first and largest U.S.-based firm to provide wind engineering consulting services to Architects and Engineers, our founders helped create the tools and methods that remain the standard of the industry. For more than 40 years, CPP has been providing industry-leading wind consulting services for projects around the world with wind tunnel facilities in Windsor, Colorado, and Sydney, Australia.

Attendees can tour this globally renowned facility to learn how CPP's tools and methods can aid in the design of high-rise buildings, sports arenas, high-tech laboratories, and more! See first-hand how the advanced lab provides wind tunnel testing to determine everything from vortex shedding to wind-induced noise.

When you know how wind affects our world, your buildings can be safer, more comfortable, and more efficient.





Nonlinear Structural Analysis Methods Used in Modern Steel Design

SC1 Tuesday, March 22, 1:00 – 5:00 p.m.

\$275 members* | \$400 non-members
Add \$50 if purchased onsite.

Registration is required for this short course.

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Per Chapter C of AISC's *Specification for Structural Steel Buildings*, second-order effects, geometric imperfections, and stiffness reductions due to inelasticity and residual stresses must be considered. Modern-day software programs are capable of analyzing these conditions, but designers who use them need to have a fundamental understanding of how these nonlinear analyses are completed, which elements of structural behavior are included and which are neglected, and the degree to which various methods of analysis have inherent limitations that can affect solution accuracy and consistency.

This course will provide an overview of:

- Modeling geometric imperfections directly versus with notional loads
- Equilibrium in the deformed configuration using an incremental second-order analysis approach versus the approximate amplification methods in Appendix 8
- Elastic critical load analysis versus alternate methods to determine effective length factors
- Inelastic behavior and analysis of steel beams and frames
- Analysis of alternating loads that produce shakedown and incremental collapse conditions

Tuesday short
courses require
registration and
offer 4.0 PDHs.

Workshop: Designing Cross-frames & Diaphragms for Steel Bridges

SC2 Tuesday, March 22, 1:00 – 5:00 p.m.

FREE with conference registration

or \$275 members* | \$400 non-members if purchased separately
Add \$50 if purchased onsite.

Registration is required for this short course.

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Cross-frames and diaphragms are important steel bridge components as they provide stability to primary longitudinal girders and improve lateral or torsional stiffness and strength of the bridge system during construction and in-service. In horizontally curved bridges they transfer forces between adjacent girders to provide equilibrium; in straight bridges they have been historically designed to transmit wind loads.

Over the last few years, the steel bridge industry has seen a general increase in the size of cross-frames used in steel I-girder bridges across the country, in terms of both the individual member sizes and the connections themselves, resulting in significant inefficiencies. On a cost per pound basis, the cost to fabricate cross-frames can be the most expensive part of any steel girder bridge project.

This workshop will review the design history of cross-frames, and then provide guidance to designers so that they can make better choices regarding cross-frame layouts, type, members, connections as well as loads, analysis, and design. The workshop will walk through design decisions for cross-frames in bridges that are straight with low skew, straight and heavily skewed, horizontally curved, and horizontally curved with skewed supports. For each bridge type the following topics will be presented: efficient cross-frame and framing plan layout decisions, analysis considerations, stability requirements, design loads, member design, and connection design. Fabrication techniques for cross-frames and diaphragms will also be discussed, explaining why certain decisions will result in more efficient fabrication of cross-frames.

1.0 PDH = 0.1 CEU (check with your state licensing board
for eligibility for professional credits)

*Members of the following organizations qualify for a member rate:
AISC, NSBA, SSRC, NISD

LET'S PARTY!



Welcome Reception

Wednesday, March 23
5:30 – 7:00 p.m.

Location: Exhibit Hall

Kick off the conference with a networking extravaganza in the exhibit hall. Join us to explore what exhibitors are offering and experience the latest trends in software, coatings, connection products, and more—plus refreshments, hors d'oeuvres, and excellent company!



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Ballpark Bar Hop

Thursday, March 24, 7:00 – 9:00 p.m.

Location: Whiskey Row, Smash Face Brewery, Loaded, and El Tejano

Cost: Included with full registration.

For other registration types, tickets are available to purchase.

All guests must be 21+

Go out on the town in the Mile-High City! We're taking over the Ballpark district for the evening. Sample local fare and specialty cocktails at local hot spots Whiskey Row, Smash Face Brewery, Loaded, and El Tejano while exploring the neighborhood's original industrial architecture—and you'll find some surprises, like local bands, VR experiences, and games along the way!



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2018 | Baltimore



Take advantage of all the conference has to offer and join us Wednesday and Thursday evenings for fun networking opportunities!





NASCC: THE STEEL CONFERENCE session list 2022

Constructability

- Engineering for Constructability—Why Your Project Team Needs a Construction Engineer
- Let's Talk Nuts, Bolts and Washers
- Engineering the Means and Methods—Why Your Project Team Needs a Construction Engineer
- Constructability of an Industrial Building from Owner to Erector
- How to Identify and Procure Steel Castings for Building Construction
- Top 10 Bad *Specification* Items
- Top 10 Design Tips for EORs from Fabricators
- Welding Constructability
- Know Your HSS Welds

Innovations

- AISC Research: Design Issues for Fillet and PJP Welds and the Design of Skewed Welds
- AISC Research: Understanding the Behavior of Steel Connections with Bolts and Welds in Combination
- AISC and the Steel Industry: 100 Years of Innovation
- Efficiently Reaching for a Mile High: Using High-Strength Steel in Tall Buildings
- Life Cycle Analysis (LCA) for Steel Buildings
- SpeedCore Design Guide: It's Finally Here!
- Hybrid Steel-Framed Structures with Mass Timber Floors

Design & Analysis

- Adding Resilient Structural Systems to the Engineer's Toolbox—Current Views From Past Higgins Award Winners
- Direct Analysis Method—When and Why?
- Brittle Fracture: Another View
- Lateral Load-Resisting Frames Using Steel Joist and Joist Girders
- Overview of the 2022 *Specification for Structural Steel Buildings*
- Ponding Analysis—An Up-To-Date Report
- Prescriptive Fire Resistance Design of Steel Deck Floor Assemblies Using UL D982
- Push, Bend, Twist—Chapter H: Understanding the Tips and Tricks of Combined Load Checks
- Are You Ready for Braced Frames
- Resilience and What it Means to the Structural Engineer
- Retrofitting Buildings with Steel Joists
- Base Plates Behaving Badly—Destroying Misconceptions That May Ruin Your Design.
- Roof and Floor Deck FAQ
- Roof Diaphragms—New Design Developments
- Steel and Fire: What's Changed in 2022?
- Steel Framed Parking Garages—Detailing for Durability
- Steel Joist Floor Systems—Best Practices
- Design Challenges for Industrial Buildings: Stability of Industrial Structures
- Session One: Introduction to Design in Stainless Steel
- The Indirect Analysis Method of Design for Stability: An Amplifier to Address Member Inelasticity, Member Imperfections, and Uncertainty in Member Stiffness
- Using AISC 370 to Design Stainless Steel Structures
- Vibration Analysis of Steel Joist/Concrete Floors
- But It's Not in There!
- When Measuring Isn't Enough—Evaluating Existing Structures
- Rules of Thumb for Steel Design
- Measuring Forces in Tension Members: New and Old
- Introduction to Software Development for Structural Engineers Part 2
- Experimental Evaluation of Casting Quality and Welded Interfaces for Cast Steel Nodes to Round HSS
- How Did We Get Here? The Importance of Understanding the Equations We Use
- Never Let Structural Software Think for You, Only Let it Think Faster
- Complementary Nuclear Publications: *Specification for Safety-Related Steel Structures for Nuclear Facilities* (N690-18) and the *NRC Regulatory Guide*
- Decking Products and Engineered Solutions
- Delegated Design and the Engineer of Record
- Design Guide 25: *Frame Design Using Nonprismatic Members*
- Design of Cable Rails and Balustrades
- Diaphragms—Implications of Recent Research Developments on Design



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2017 | San Antonio

Connections

- DIY Guide to Successful Connection Delegation
- HSS Connection Examples Outside the Tube
- Reinforcing HSS Connections
- Structural Integrity Connections
- The Impact of Connection Design & Detailing on Cost and Productivity in Fabrication and Erection
- Your Connection Questions Answered by the SSC

Case Studies

- 425 Park Avenue: A New Building Built inside an Existing Building
- Structural Assessment of the Air Force Academy Cadet Chapel: An Iconic Colorado Steel Structure
- Case Study: Managing Uncertainties with Collaboration at Meow Wolf Denver
- Revitalizing a Classic
- Case Studies on Structural Stability Failures: You Make the Call
- Case Study of the Erection of the Nancy and Rich Kinder Building
- Case Study: Managing Workflow on the Bel Air High School Sports Complex
- The Steel Cocoon: A Case Study in Creative Use of Steel as a Solution in the Restoration of the Air Force Academy Chapel
- Hotel Julian Chicago: 5 Story Addition Atop a 12 Story Steel Structure from 1912
- Moynihan Train Hall—Structural Steel Retrofitting in an Active Train Station
- Reimagined in Steel: Charles Library at Temple University

Seismic

- AISC 342, *Seismic Provisions for Evaluation and Retrofit for Existing Structural Steel Buildings*
- It is Better to Bend than Break: Retrofitting with Buckling Restrained Braces and Steel
- Overview of the 2022 *Seismic Provisions for Structural Steel Buildings*
- Part 1: Seismic Design for Non-West Coast Engineers
- Part 2: Seismic Design for Non-West Coast Engineers
- Seismic Performance of Exposed Column Baseplates
- Design and Analysis of Special Concentric Braced Frame Systems
- Welding Requirements for Seismic Force Resisting Systems

GET
YOUR
PDH
ON!



The Code of Standard Practice

- Seeing Eye to Eye: AISC Specification Design Document Requirements
- The Code of Standard Practice: Understanding How the Code Impacts Your Work
- Your 2022 AISC Code of Standard Practice: The Structural Engineer's Perspective
- Your 2022 AISC Code of Standard Practice: The Erector's Perspective
- Your 2022 AISC Code of Standard Practice: The Fabricator's Perspective

Ethics

- 8 Tips to Avoid the Traps of Unethical Behavior

Technology

- Applications for Smart Glasses and Augmented Reality in Structural Steel
- Artificial Intelligence: The New Frontier in Structural Design
- Legal Lessons Learned with Building Information Modeling (BIM)
- New Guidelines on Model Review and Approval
- The Myriad Ways That Connected Models Drive Efficiency
- Tightening Up Your Data Exchanges
- Updates to the AISC *BIM/VDC Guide*

Business Issues

- 10 Tips for Managing Conflict
- Mentoring the Next Generation of Leaders in Steel
- Staying Ahead of Industry Evolution
- The GREAT Solution to Steel's Skilled Labor Shortage!
- The Theory & Practice of Difficult Negotiations
- Top 10 Labor and Employment Issues Facing Employers
- Understand Your Assets as a People Manager
- What to Do When Your Insurance Carrier Says No: And How to Protect Yourself Against Coverage Denials
- Working With Owners: An Effective Business Model
- Build Teamwork that Works to Win.
- Building Relationships of Trust—Trust Model
- Preparing for Proposed Tax Law Changes: Assuring the Successful Continuation of Your Company
- Effectively Influence Others to Optimize Results
- Early Involvement: Helping the Owner Choose Structural Steel
- Formula for a Project Train Wreck: Incomplete Information + Inadequate Communication \times Ineffective Management = Expensive but Avoidable Litigation
- Getting Sustainability Right: Creating an ESG Strategy That Aligns With Your Purpose and Provides Practical Value to the Business.
- Government Advocacy in the Steel Industry

Legal Issues

- Best Practices and Strategies to Secure Your Payment Bond and Lien Claims
- Preparing and Presenting Damages Claims: Improving Your Chances of Recovery

Fabrication

- Accelerated Welding
- Scheduling Shop Resources to Create Productive Flow
- Scheduling Steel Fabrication Work

Operations

- How to Establish an Effective Preventative Maintenance Program

Erection

- Buildings Under Construction are at the Greatest Risk of Collapse
- Erection Engineering in Support of a SpeedCore Tower Project in California

Project Management

- Ten Lessons on Project Management You Didn't Learn in School
- Winning Change Orders

Safety

- Complacency and Risk Tolerance in Construction Safety
- Fall Arrest vs Fall Restraint
- Developing your Safety Program (no matter your company size) and PPE quality, cost, usability and other aspects you need to consider
- Safety Incentives—Aligning Financial Interests Between Your Company and Your Employees
- Cultivating a Safety Culture: How to Produce Returns From Your Safety Program
- Reporting and Using Near Misses and Close Calls to Fix Potential Problems
- A Review of the SEAA/NISD Detailing Guide for Enhancement of Erection Safety and Comments on Designing for Erection Stability
- Air Quality for Safe Plant Operations: How Clean Is Clean Enough?
- Safety Audits & Site Inspections—Effectively Conducting a Safety Audit



QualityCon sessions

- Certification Forum
- Contractor QC Training and Task Management Tips and Traps
- Intro to Complex Coatings
- A Closer Look at Inspection Requirements for Complex Coatings
- Caused, Not Controlled
- Three Fabricators Walk into a Bar...
- How to Become AISC Certified?
- The Holy Grail: Clear, Simple, and Effective Quality Procedures
- Construction Documents: The Wheres and Whats
- GCs and Quality: A Panel Discussion
- How to—and Why You Should—Quantify Quality
- So! You're Thinking About Working for a DOT and Grabbing a Piece of That Infrastructure Bill!
- Quality Steel Deck Installation Doesn't Just Happen
- Do You Have Bolting Questions? AISC's Steel Solutions Center Has the Answers.
- Common Audit Findings for the Erector
- Planning Made Easy for Erectors
- The New WPS Qualification Options in D1.5
- Technology: It's Going to Make You Better, Trust Us!
- What's New With the AWS D1.1?
- What You Need to Know About AISC 360 Chapters N and J, the *Specification*, and the *Provisions*
- Let's Talk Tolerances: Improving Coordination to Avoid Constructability, Quality, and Cost Issues
- Get the Edge Bidding Today's Steel Erection Projects
- Structural Steel Inspection: What, Where, When, How Many—and Above All, Why



**DON'T
MISS OUR
PARTNER
SESSIONS!**



NISD Conference on Detailing sessions

- BIM Level of Development as a Deliverable
- Successful RFI Management
- The NISD Industry Standard
- VR Detailing Game
- Weld Details, Welding Code Requirements, Symbols, Processes, and Joints
- Dealing With Your Client's Steel Management Software
- Detailing and Coordinating Steel Deck
- Detailing for Erector Safety—Detailing Guide for Erector's Safety and Efficiency Vol III
- Detailing for Metal Bar Grating
- Detailing for Steel Joist and Joist Girders
- Managing Offshore Detailing
- NISD Education and Certification Programs
- Quality Procedures in the Detailing Office

World Steel Bridge Symposium sessions



- 2022 Prize Bridge of the Year
- Complex Erection Engineering for Modern Steel Arch Bridges
- Structural Art in Steel Bridges: Past, Present, and Future
- Bridge Rehabilitation—Extending the Service Life of Steel Bridges
- Streamlining Steel Girder Design
- Advances in Uncoated Weathering Steel for Steel Bridges
- Achieving Speed in Steel Bridge Fabrication

- Innovative Technology for Future Steel Bridges Advances
- Curves Ahead: Case Studies on Skewed and Curved Girder Bridge Design
- New Design Strategies to Make Steel Bridges Resilient to Extreme Events
- Steel Truss Bridges—Competitive at the Start, Adaptive for the Future
- The Contractors Perspective on Accelerated Bridge Construction (ABC)
- ABC.... As Easy As 1, 2, 3
- Unique Short Span Solutions
- Erection Engineering for Steel Bridges
- Movable Steel Bridges: Where Steel Always Shines
- Emergency Repair of the Hernando de Soto Bridge
- Latest in Liquid Applied Coatings
- Intersecting Welds, Myth or Monster?
- Design Build with Steel
- What Bridge Designers Always Wanted to Know About Steel Bridge Fabrication: A Panel Discussion
- Railroad Bridges
- Innovative Solutions for Non-fracture Critical Steel Straddle Bents



SSRC Annual Stability Conference sessions

- Beedle Award Session
- Advances in Stability Analysis
- Stability of Frames and Frame Systems
- Stability of Frame Members
- Special Topics in Structural Stability
- Stability of Plates and Shells
- Stability of Floor and Roofing Systems
- Stability of Beams and Girders I
- Stability of Beams and Girders II
- Stability of Columns
- Stability of Columns and Compression Members
- Stability of High Strength and Stainless Steels
- Stability Under Extreme Loading

Check out
our exhibitors!



Abrafast.com /
[The Blind Bolt Co.](http://TheBlindBoltCo.com)
booth 3703
www.abrafast.com

[Advance Tools LLC](http://AdvanceToolsLLC.com)
booth 3308
www.advance-tools.com

[AFF Design Services Inc.](http://AFFDesignServicesInc.com)
booth 2024
www.affsteel.com

[Agen-Robotic Structural
Steel Assembler](http://Agen-RoboticStructuralSteelAssembler.com)
booth 212
www.abkaotomasyon.com

[AGT Robotics](http://AGTRobotics.com)
booth 606
www.agtrobotics.com

[AKYAPAK USA](http://AKYAPAKUSA.com)
booth 911
www.akyapakusa.com

[Albina Co. Inc.](http://AlbinaCo.Inc.com)
booth 3717
www.albinaco.com

[Allegheny Coatings](http://AlleghenyCoatings.com)
booth 3121
www.alleghenycoatings.com

[Allied Machine &
Engineering](http://AlliedMachine&Engineering.com)
booth 1809
www.alliedmachine.com

[American Galvanizers
Association](http://AmericanGalvanizersAssociation.com)
booth 3622
www.galvanizeit.org

[American Institute of
Steel Construction \(AISC\)](http://AmericanInstituteofSteelConstruction(AISC).com)
booth 3825
www.aisc.org

[American Punch Company](http://AmericanPunchCompany.com)
booth 1820
americanpunchco.com

[American Welding Society](http://AmericanWeldingSociety.com)
booth 3625
www.aws.org

[Anatomic Iron Steel Detailing](http://AnatomicIronSteelDetailing.com)
booth 2623
www.anatomiciron.com

[Applied Bolting
Technology, Inc.](http://AppliedBoltingTechnologyInc.com)
booth 3011
www.appliedbolting.com

[ArcelorMittal International](http://ArcelorMittalInternational.com)
booth 3013
www.arcelormittal.com

[Armatherm](http://Armatherm.com)
booth 3425
www.armatherm.com

[Atema Inc.](http://AtemaInc.com)
booth 3411
www.atemala.com

[Atlas Tube, A Division of
Zekelman Industries](http://AtlasTube,ADivisionofZekelmanIndustries.com)
booth 2420
www.atlastube.com

[ATP](http://ATP.com)
booth 3306
www.hy-techinc.com

[Autodesk, Inc.](http://AutodeskInc.com)
booth 2820
[www.autodesk.com/
advancesteel](http://www.autodesk.com/advancesteel)

[Automated Layout
Technology LLC](http://AutomatedLayoutTechnologyLLC.com)
booth 616
www.automatedlayout.com

[AZZ Metal Coatings](http://AZZMetalCoatings.com)
booth 2708
www.azz.com

[Baco Enterprises Inc.](http://BacoEnterprisesInc.com)
booth 1813
www.bacoent.com

[Bamal Fastener Corporation](http://BamalFastenerCorporation.com)
booth 3407
midweststructuralproducts.com

[Beamcut Systems /
Machitech Automation](http://BeamcutSystems/MachitechAutomation.com)
booth 1423
www.beamcut.com

[Bend-Tech](http://Bend-Tech.com)
booth 417
www.bend-tech.com

[Bentley Systems,
Incorporated](http://BentleySystems,Incorporated.com)
booth 3616
www.Bentley.com

[Birmingham Fastener](http://BirminghamFastener.com)
booth 1911
www.bhamfast.com

[Birmingham Rail &
Locomotive](http://BirminghamRail&Locomotive.com)
booth 3805
www.birminghamrail.com

[Blair Corporation](http://BlairCorporation.com)
booth 3620
www.blairwirerope.com

[Bluebeam Inc.](http://BluebeamInc.com)
booth 2611
www.bluebeam.com

[Brown Strauss Steel](http://BrownStraussSteel.com)
booth 1917
www.brownstrauss.com

[Bull Moose Tube Company](http://BullMooseTubeCompany.com)
booth 3503
www.bullmoosetube.com

[CADeploy, Inc.](http://CADeploy,Inc.com)
booth 2612
www.cadeploy.com

[CAMBCO, Inc.](http://CAMBCO,Inc.com)
booth 3803
www.cambcoinc.com

[Canam Group](http://CanamGroup.com)
booth 2217
www.canamsteelcorp.com

[Carhartt Company Gear](http://CarharttCompanyGear.com)
booth 4003
www.carhartt.com

[Cast Connex Corporation](http://CastConnexCorporation.com)
booth 3611
www.castconnex.com

[C-BEAMS](http://C-BEAMS.com)
booth 3021
www.c-beams.com

[Cerbaco Ltd.](http://CerbacoLtd.com)
booth 2106
www.cerbaco.com

[Chicago Clamp Company](http://ChicagoClampCompany.com)
booth 3820
chicagoclampcompany.com

[Chicago Metal
Rolled Products](http://ChicagoMetalRolledProducts.com)
booth 2608
www.cmrip.com

[Cleveland City Forge](http://ClevelandCityForge.com)
booth 3505
www.clevelandcityforge.com

[Cleveland Punch & Die Co.](http://ClevelandPunch&DieCo.com)
booth 1814
www.clevelandpunch.com

[Columbia Safety and Supply](http://ColumbiaSafetyandSupply.com)
booth 3517
www.colsafety.com

[Combilift USA](http://CombiliftUSA.com)
booth 611
www.combilift.com

[COMSLAB](http://COMSLAB.com)
booth 3116
www.comslab-usa.com

[Controlled Automation, Inc.](http://ControlledAutomation,Inc.com)
booth 1511
www.controlledautomation.com

[CoreBrace, LLC](http://CoreBrace,LLC.com)
booth 2214
www.corebrace.com

[CSC – Canam Steel
Corporation](http://CSC-CanamSteelCorporation.com)
booth 2620
cscsteelusa.com

[Cutting Edge Steel & Stair](http://CuttingEdgeSteel&Stair.com)
booth 2026
www.cesteel.com

[CWB Group](http://CWBGroup.com)
booth 3920
www.cwbgroup.org

[DACS, Inc.](http://DACS,Inc.com)
booth 3811
www.dacsinc.com

[Daito Seiki Co., LTD](http://DaitoSeikiCo.,LTD.com)
booth 1623
www.daitousa.com

[Dale Fastener Supply](http://DaleFastenerSupply.com)
booth 3515
www.dalecompany.com

[DampTech USA](http://DampTechUSA.com)
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www.damptechusa.com

[Danny's Construction
Company, LLC](http://DannysConstructionCompany,LLC.com)
booth 3511
www.dannysconstruction.com

[DBM VirCon](http://DBMVirCon.com)
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www.dbmvircon.com

[DEICON](http://DEICON.com)
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www.deicon.com

[Delta Steel, Inc.](http://DeltaSteel,Inc.com)
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www.deltasteel.com

[DGS Technical Services, Inc.](http://DGSTechnicalServices,Inc.com)
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www.dgst.com

[Dlupal Software, Inc.](http://DlupalSoftware,Inc.com)
booth 3108
www.dlupal.com

[DOT Quality Services](http://DOTQualityServices.com)
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www.dotqs.com

[DuraFuse Frames](http://DuraFuseFrames.com)
booth 2221
durafuseframes.com

[EDSCO Fasteners](http://EDSCOFasteners.com)
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www.edsco.com

Electro-Mechanical Integrators, Inc.

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www.emiworks.com

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Ercolina – CML USA, Inc.

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ercolina-usa.com

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www.exactdetailing.com

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fmanet.org

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fabstn.com

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www.ficepcorp.com

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booth 2322
www.acument.com/brands/le-usa

GERB Vibration Control Systems

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www.gerb.com

Gerdau

booth 2616
www.gerdau.com

Girder-Slab Technologies, LLC

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www.girder-slab.com

GIZA

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www.gizasteel.com

Graitec

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www.graitec.com

Grating Fasteners

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www.gclips.com

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booth 3223
www.greenbrookengineering.com

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www.grmcp.com

Grupo Cano

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grupocano.com.mx/home

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www.gwyinc.com

Haydon Bolts, Inc.

booth 2003
www.haydonbolts.com

Hercules Bolt Company

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www.herculesbolt.com

HEXAGON

booth 3507
hexagonppm.com

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www.hilti.com

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booth 3113
www.hollowaysteelservices.com

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www.hrvinc.com

HYTORC

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www.hytorc.com

IAPMO Uniform Evaluation Service

booth 3125
www.uniform-es.org

IDEA StatiCa US LLC

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www.ideastatica.com

Ideal Contracting

booth 2123
www.idealcontracting.com

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www.iesweb.com

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www.interstategratings.com

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www.impact-net.org

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booth 3025
www.irysglobal.com

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booth 2020
www.jblong.com

JH Botts LLC

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www.jhbotts.com

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www.kineticusa.com

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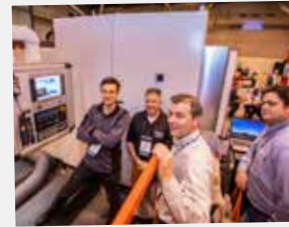
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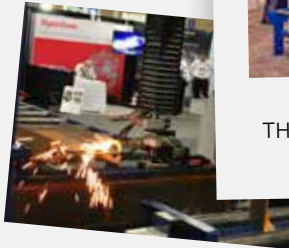
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www.lap-laser.com

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www.lapeyrestair.com

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www.lejeunebolt.com

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www.lscmetalfab.com

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www.lionlumber.com

LNA Solutions
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www.lnasolutions.com

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booth 4006
www.lohrfasteners.com

LS Industries
booth 1913
www.lsindustries.com

LTC, Inc.
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www.ltcsteeldetailers.com

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www.lusas.com

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www.mac-tech.com

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booth 3816
www.MagniTH.com

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booth 3218
www.mannisipre.com/products/introduction

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booth 3512
www.leavitt-tube.com

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booth 1817
matthewsmarking.com

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www.ephtools.com

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www.mgmclaren.com

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www.metalsusa.com

Meyer Borgman Johnson
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www.mbjeng.com

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www.millerwelds.com

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booth 3903
www.minergrating.com

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www.mii.com

Modern Steel Construction magazine
www.modernsteel.com

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booth 2226
www.moldtekengineering.com/detailing.html

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www.nisd.org

National Steel Bridge Alliance
booth 3825
aisc.org/nsba

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www.newmill.com

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www.nickelinstitute.org

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www.nucoryamato.com;
www.nucor.com/products/Steel-Beam

Nucor – Corporation
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www.nucor-fastener.com

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www.LearnWithSEU.com

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www.thesbcllc.com

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www.hanputool.com

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protective.sherwin.com

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www.shortspansteelbridges.org

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www.skidmore-wilhelm.com

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www.skmproducts.com

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www.southatlanticcllc.com

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www.srgonesource.com

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www.stlouisscrewbolt.com

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systairs.com

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www.TrilogyMachinery.com

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www.tekla.com/us

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www.sss-steel.com

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www.turnasure.com

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 booth 2006
www.hotdipgalvanizing.com

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www.valmont.com

Valmont Structures
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www.constructbridge.com

Viking Blast & Wash Systems
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www.vikingcorporation.com

VIRTUELE
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www.sanriaengineering.com

Voortman Steel Group
 booth 800
www.voortmancorp.com

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