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UPCOMING EVENTS

February 26, 2005
Floor Vibrations - A Critical Serviceability Issue
Thomas M. Murray, Ph.D., P.E.
Mid-Continent Steel Conference
8:45 AM – 9:00 AM

March 10, 2005
Structural Renovation of Buildings
New Orleans, LA
American Society of Civil Engineers
www.asc.org

March 29, 2005
A Guideline Addressing Coordinating and Completeness of Structural Construction
Ray Messer, P.E.
Tentative Seat-Claiming Topics

May 24, 2005
Design for Deconstruction
Michael Pulaski, Ph.D., and Jamieson Robinson, P.E.
with Damping Systems
Thompson Robinson, P.E.
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April 6-9, 2005
The North American Steel Construction Conference
American Institute of Steel Construction
Chicago, IL
www.aisc.org/nascc

May 2-5, 2005
OTC 05
Offshore Technology Conference
Houston, TX
www.otc.org/2005/

MILWAUKEE ART MUSEUM – QUADRACCI PAVILION

John Kissinger, P.E., S.E.
Graef, Anhalt, Schloemer & Associates, Inc.

Tuesday, February 22, 2005

SYNOPSIS

The stunning addition to the Milwaukee Art Museum, designed by Santiago Calatrava, has become a Milwaukee landmark. John Kissinger, P.E., S.E., who worked on the project almost from its inception, will give the audience’s perspective to unusual structural features of the building, including its Kinetic clock structure. John Kissinger, P.E., S.E., who worked on the project almost from its inception, will give the audience’s perspective to unusual structural features of the building, including its Kinetic clock structure. John Kissinger, P.E., S.E., who worked on the project almost from its inception, will give the audience’s perspective to unusual structural features of the building, including its Kinetic clock structure. John Kissinger, P.E., S.E., who worked on the project almost from its inception, will give the audience’s perspective to unusual structural features of the building, including its Kinetic clock structure. John Kissinger, P.E., S.E., who worked on the project almost from its inception, will give the audience’s perspective to unusual structural features of the building, including its Kinetic clock structure.
This space available for your advertisement!

For information, call Stewart Verhulst at (214) 618-4570

CONNECTION COSTS - PART II

39. Correctly apply AISC requirements for structural connections.

40. Use slip-critical connections for:

34. Consider excluding bolt threads (X-bolts)

33. When loads are large, consider larger diameter bolts.

32. Use short-slotted holes in outstanding legs of connection angles, end plates and flanges.

31. Try to limit bolt diameters to 1” or smaller.

30. Try to limit bolt diameters to 1” or smaller.

29. Use snug-tightened joints as much as possible.

28. Use snug-tightened joints as much as possible.

27. Whenever possible, specify bearing joints. It makes the most economical use of bolts, eliminates masking or a special paint spray, and reduces installation and inspection requirements.

26. Use snug-tightened joints as much as possible.

25. The complete article was originally published in Minneapolis, MN. He is a member of the structural engineers for the design

24. Editor’s Note: This article was adapted from the paper Mr. About the Author:

23. Mechanically galvanized ASTM A325 bolts provide excellent corrosion resistance and require a minimum of drilling and tapping of nuts and easier installation.

22. Use short-slotted holes in all materials. If closures have to be made after the cut-off time and money – and make everybody’s work easier when working with connections on fast track schedules. Here are some tips to help reduce the cost of common structural steel connections.

21. The Dallas Chapter of TSPE cordially invites you to attend the culmination of Engineers Week activities. The Gala recognizes and gives recognition to outstanding professionals and leaders in the engineering field. The Gala is held to provide a social event for members and guests of the Dallas Chapter of TSPE.

20. You may support SEAoT by advertising in the newsletter. Space is available for structural engineers for the design of the AISC F436 (for fully pretensioned A490 bolts).

19. Never use bolts with the same diameter but different strengths on a job – it can lead to mistakes.

18. Use long-slotted holes in all materials. If closures have to be made after the cut-off time and money – and make everybody’s work easier when working with connections on fast track schedules. Here are some tips to help reduce the cost of common structural steel connections.

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16. Use long-slotted holes in all materials. If closures have to be made after the cut-off time and money – and make everybody’s work easier when working with connections on fast track schedules. Here are some tips to help reduce the cost of common structural steel connections.

15. Fillers up to ¼" thick can be used in cases they don’t need to be filled, and over-tapping of nuts and easier installation.

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The newsletter editor is always looking for articles and announcements for publication. Submission must be sent to the editor via email at schriets@halff.com no later than the fifth day of the month of publication.

The following is an example of a selection of projects that may be of interest to you:

- Direct-tensioning of a piping system in the newsletter. Space is available to structural engineers firms, vendors, and suppliers to $110.00 for one advertisement (8 newsletters). If interested, please contact Stew, 231-271, McAllen, (956) 684-3286, San Antonio, (210) 788-1850.

To reserve a place at this month’s meeting, please RSVP to Eric Christiansen by 1:00 PM on Wednesday, February 16, 2005. You may contact him at (214) 346-8248, or via email at echristiansen@halff.com. Indicate if you will attend as an individual or if you are representing a company. RSVP to Eric Christiansen by 1:00 PM Friday, February 18, 2005 for information, contact Brian Powell at (972) 620-2814, or via email at echristiansen@halff.com.

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Waste Water Treatment Facility Renovation
Marine Dock Repair and Upgrades
Crack Injection
Strengthening of Structures for Change of Use
Repair of Concrete Structures

A little planning goes a long way, especially with respect to steel connections. These helpful tips should help you keep your eyes on the ball and driving you nuts, and welds for torching your temper.

Connections can be expensive, and they can take a lot of effort to create during the design and construction process. How can you save time and money – and make everybody’s work easier when working with connections on fast track schedules? Here are some selection guidelines for structural engineers for the design of economical bolted and welded connections for columns, beams and braces. (Editor’s Note: Part 1 (items 1-28) were published in January’s newsletter: Part 3 (items 41-57) will follow in March.

27. Whenever possible, specify bearing joints. It makes the economical use of bolts, eliminates masking or a special paint spray, and reduces installation and inspection requirements.

28. Use snug-tightened joints as much as possible.

29. Favor ¼ diameter A325 bolts for typical structures.

30. Try to limit bolt diameters to 1” or smaller. Larger diameter bolts require special equipment, larger spacing and edge distances, and special ¼”, 3/8” thick washers.

31. Never use bolts with the same diameter but different strengths on a job – it can lead to mistakes.

32. Use short-slotted holes in outstanding legs of connection angles, and plates and single-plate connections.

33. When loads are large, consider larger diameter bolts and/or ASTM A490 bolts.

34. Bolt material cost is roughly proportional to the bolt diameter, so select the largest diameter possible consistent with structural requirements.

35. Higher strength bolts save in connection material, hole-making, and installation cost.

36. Where fully pretensioned bolts are required, the use of any of the four methods approved by AISC and ASCE:

- Turn-of-nut.
- Calibrated wrench.
- Twist-off type tension-control bolt.

37. Mechanically galvanized ASTM A325 bolts provide excellent corrosion resistance and require a minimum of overtapping of nuts and easy pretensioning.

38. Keep your bolt holes as rational as possible

- Don’t use different hole sizes in the same member. It leads to mistakes and slows fabrication because shop re-threading is required for the piece.
- Don’t specify slots in material thickness or bolthead diameter plus ¼”.

The AISC Specification doesn’t allow for bolt holes in such material, and it is difficult to make slots. A good alternative would be to use oversized holes.

Use the same oversized holes in all pieces if it is possible.

Use long-slotted holes in girts and any members that must be field-aligned to tolerances other than standard steel framing tolerances (for example, curtain wall connections)."
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MILWAUKEE ART MUSEUM – QUADRACCI PAVILION

Tuesday, February 22, 2005

SYNOPSIS

The stunning addition to the Milwaukee Art Museum, designed by Santiago Calatrava, has become a Milwaukee landmark. John Kissinger, P.E., S.E., who worked on the project almost from its inception, will give insight into some of the project challenges. The project was named the Number One Design of 2001 by TIME magazine, and has won State, National and International engineering awards.

Mr. Kissinger was Project Manager overseeing structural, civil and environmental engineering for the development, for the firm of Graef, Anhalt, Schloemer and Associates. In addition, Mr. Kissinger also managed his firm’s work as Associate Landscape Architect to the office of Daniel Urban Kiley.

Mr. Kissinger will discuss how this unique project came to be, particularly with regard to the structural design. He will give an insider’s perspective to unusual structural features of the building, including its kinetic roof structure, the “Brise Soleil”. He will also discuss the dynamics of its international design team, and the effect that this landmark structure has had on the community.

ABOUT THE SPEAKER

John Kissinger is a Vice President with Graef, Anhalt, Schloemer & Associates, Inc., an ENR Top 500 firm headquartered in Milwaukee, Wisconsin. John’s broad range of experience encompasses engineering, marketing, and management. He has developed a keen understanding of the special needs of clients, and has been an active participant in distinctive projects that have become symbols throughout the Midwest.

As an engineering manager, John has worked on projects with construction costs ranging from a few thousand dollars to several hundred million. His recent large-scale project management experience includes the internationally acclaimed Milwaukee Art Museum Quadracci Pavilion, designed by Santiago Calatrava and winner of TIME Magazine’s No. 1 Design of 2001, and the Midwest Airlines Center, a 700,000 square foot convention center located in downtown Milwaukee. Additionally, he has been the firm’s principal-in-charge of both civil and structural engineering teams for the $290 million expansion of the Green Bay Packers’ Lambeau Field stadium, as well as head of a team assisting in the structural design of the $850 million expansion of McCormick Place Convention Center in Chicago, and a team providing civil engineering and site development services for the new 49-acre camp John Paul Jones at Great Lakes Naval Base.

John is a registered Professional Engineer in Wisconsin, Ohio, Michigan and Nebraska, a Licensed Structural Engineer in Wisconsin, and a LEED Accredited Professional. He is also a member of the American Society of Civil Engineers and the American Concrete Institute, where he is Past-President of the Wisconsin Chapter. John was honored as one of the “Top 25 Newsmakers of 2001” by Engineering News-Record Magazine.

He and his wife Debbie have three children and live in Wauwatosa, Wisconsin, a suburb of Milwaukee.