

April, 2014
Volume 18, Issue 8

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APRIL LUNCHEON

DATE: Thurs. Apr. 17, 2014 - 11:30 AM
Registration, 12:00 P.M. Lunch & Presentation

LOCATION: Schmidt's Sausage Haus, 240 East
Kossuth Street, Columbus OH 43206

*Free on-site parking is available.

TOPIC: Engineering the Future

ASCE's Vision for 2025 includes three strategic initiatives: Sustainability, Infrastructure, and Raise the Bar. Hear about what ASCE is doing in each of these critical areas and how you can participate in making a difference.

SPEAKERS: Robert D. Stevens, Ph.D., P.E.,
AICP, F.ASCE

National President-Elect, American Society of Civil Engineers

Executive Vice President, ARCADIS U.S., Inc., Fort Worth, Texas

*See additional biographical information on page 4.



MENU: Schmidt's Traditional German Buffet: Pork Bratwurst, Smoked Bahama Mama, Garlic Knockwurst, German Potato Salad, Hot Sauerkraut with Pork, Green Beans with bacon, Chunky Applesauce, Garden Salad, Rolls & Butter, Coffee, Tea and Iced Tea.

CPD: A certificate for one (1) Continuing Professional Development (CPD) hour will be issued.

COST: \$20 ASCE Members & Guests, \$15 ASCE Life Members, \$10 Students.

REGISTER: Registration is due by Noon on Friday, April 11, 2014. Late registrations and walk-ins may not be accepted. Registration fees may apply for no-shows and registrants canceling after the deadline. To register for this event please contact Mark Seidelmann at 614-844-4015, or register@centralohioasce.com.

PAYMENT: The preferred method of payment is online (click [HERE](#)) before the registration deadline. Payment on the day of the event is available by cash or check payable to Central Ohio ASCE.

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LETTER FROM THE PRESIDENT

Central Ohio Section Members:

As the unforgettable bitter cold days of winter are finally behind us, and we are now in beautiful season of spring - a season of renewal, ASCE Central Ohio is gearing accordingly toward a new chapter administration. The new administration involves the upcoming election of new Board members (President, 1st and 2nd Vice President, Member At-Large, Treasurer, Secretary, and Delegates to the Ohio Council of Local ASCE Sections). Please do your engineering duty and vote. Details are included on page 4.

Here are our upcoming events:

On April 17th, ASCE President-Elect Robert Stevens will discuss on "Becoming the Engineering Leader of Tomorrow". This event will involve a luncheon at Schmidt's Restaurant and Sausage Haus. Do not miss the great talk and the delicious food! In addition to the lunch meeting, on Wednesday night, April 16, President-Elect Stevens will be speaking at the Varsity Club in an event sponsored by the Younger Members group. Food and drinks will be

provided, and Stevens will be available for discussion through the evening.

On May 15th, we will meet at Villa Milano to learn about City of Columbus Downtown Bio-Filters. This will be a fantastic opportunity to learn about our local projects. We will send you the details in a week.

We also have a number of free webinars for you in the upcoming weeks. Do not miss the opportunity to learn on a subject of your interest, to earn a PDH, and catch up with a colleague.

Feel free to provide us input on webinar subjects that you may be interested in. We will ensure that topics will be greatly useful ones and will earn you PDH's.

Regards,

Michael Navabi, PE, D.WRE, BCEE, F.ASCE
President – ASCE Central Ohio Section

President@CentralOhioASCE.com

REGION 3 INFRASTRUCTURE INITIATIVES

The American Society of Civil Engineers champions a national initiative centering upon educating the public and its elected representatives on the condition of the Nation's Infrastructure. The initiative concentrates upon highlighting the shortfalls in an array of Infrastructure categories, defining the Failures to Act and their consequences, and requesting the development of sustainable funding streams such that long-term public needs will be reliably met.

The Region 3 Board of Governors, representing ASCE members in Ohio, Michigan, Illinois, Wisconsin, Minnesota, and North Dakota and has assembled the Region 3 Infrastructure Initiative to facilitate legislative solutions toward securing sustainable funding sources for the sectors below. We welcome your feedback for these issues to be debated at the Region 3 Assembly in August, 2014. Please contact a board member for questions or comments.

Transportation - The Federal Highway Trust Fund receives revenues from the federal fuel taxes. Gasoline and gasohol is taxed at 18.4 cents per gallon, of which 15.4 cents is applied to the Highway Account, 2.9 cents to the Mass Transit Account, and 0.1 cent to the Leaking Underground Storage Tank Account. Diesel fuel is taxed at 24.4 cents per gallon, of which 21.4 cents is applied to the Highway Account, 2.9 cents to the Mass Transit Account, and 0.1 cent to the Leaking Underground Storage Tank Account. The tax has not been increased for two decades, is not indexed for inflation, and is not sustainable. The Trust Fund is being exhausted and is currently being bolstered with federal general revenue, adding to the annual Federal Deficit.

Goal - Our states need dependable user charge systems to adequately fund Road and Bridge Rehabilitation and Replacements. All of the strategies depend upon separating the funds generated and preserving these revenues for transportation infrastructure

Strategy – Index state and federal gas taxes for inflation, tolling, local gas taxes, and vehicle miles traveled taxes.

Water and Wastewater - In Region 3, citizens are accustomed to consistent quality safe drinking water at any faucet or tap, and the ASCE Region 3 Board of Governors endeavors to assure this ability through Sustainable Funding Sources.

Goal - To create new infrastructure funding streams and to enhance existing funding streams, including: costs to be borne by users, funding accounting for inflation, adjustable for regulatory changes and future capital needs.

Strategy – Create state water infrastructure banks and implement wastewater and stormwater utility fees.

Parks and Recreation - A major commitment to families and community are Parks and Recreation. Parks add to the quality of life, offer opportunities for fresh air and exercise, and allow residents and visitors to enjoy public places.

Goal - To create new infrastructure funding streams and to enhance existing funding streams, including: costs to be borne by users, funding accounting for inflation, adjustable for regulatory changes and future capital needs.

Strategy – Establish parks foundations and encourage section and branch leadership participation in them.

ASCE CRANE SAFETY SEMINAR



SAVE THE DATE

What: ASCE Crane Safety Seminar

When: Tuesday, April 29, 2014

Where: Chicago, Illinois

Cost: T.B.A.

OSHA has promulgated new crane safety regulations that will have an impact on design documents, bidding, negotiating, and construction operations. This half day seminar will arm you with the knowledge needed to prevent:

- Costly Change Orders
- Construction Schedule Disruptions
- Re-designs
- Disputes

Course Objective

To raise awareness of engineers' and management's roles, responsibilities, and influence with regard to safety on the construction worksite including crane safety. The ASCE/CI

Crane Safety Training course will prepare engineers and supervisors to utilize their management and technical training to implement safety as a core objective of the construction project.

Learning Objectives

- Explore changes to OSHA regulations which place more safety responsibility on engineers, supervisors and owners
- Become familiar with the different types of cranes and hoists
- Cover the procedures for proper inspection and maintenance
- Establish the guidelines for proper equipment testing and load rating capacities
- Outline the proper procedures for crane operators and co-workers
- Outline regulations for load handling and handling equipment
- Identifying the Elements of a crane safety plan

This course is intended for construction engineers, supervisors, and owners, who want to learn more about crane safety on construction sites, and how to develop comprehensive crane safety plans that are both safety-program-compliant and project-specific. The program will also provide high-level technical background relative to crane operations, legal and regulatory explanations; and expert guidance to deal effectively with all players on the project from owner to subcontractor.

SPRING SEMINAR A SUCCESS

The Central Ohio Section held its annual Spring Technical Seminar on April 2nd in Cambridge, Ohio. The topic this year was "Water Resources for Shale Oil & Gas Operations in Ohio". There were 36 attendees. The full-day seminar featured various speakers from regulatory agencies, consulting, industry, research and academia. In appreciation of the speakers, the Section donated \$500 to the Ohio Water Education Program (OWEP), which funds outreach projects to educate students about Ohio's water resources. More information about OWEP can be found at: <http://dnr.state.oh.us/water/educate/owep/owepis/tabid/3496/Default.aspx>

Here is a list of the speakers who donated their time and knowledge to the seminar:

- Shawn Bennett; Energy In Depth-Ohio
- Brent Winslow; CONSOL Energy (also OOGA Water Resources workgroup chair)
- Blake Arthur, PE; ODNR Division of Oil & Gas Resources Management
- Doug Evans, PE; ODNR Dam Safety Program
- Boris Slogar, PE; Muskingum Watershed Conservancy District (MWCD)



- Jeremy V. Manno, PE, LEED AP, RL; Carrizo Oil & Gas, Inc.
- Cheryl Green, PE; Hull & Associates, Inc.
- Joel Sminchak; Battelle
- Matt Hammer, PG; Hull & Associates, Inc.
- Ken Martz; Chevron (panelist)
- Philip Kearny; Hess (panelist)
- Rich Milleson; Former Coordinator for the Village of Cadiz (panelist)
- Dr. Tom Darrah, PhD; The Ohio State University

CENTRAL OHIO SECTION ELECTIONS

BALLOTS FOR 2014-2015 OFFICERS

Position	Nominated Candidate	Write-In Candidate
President	<input type="checkbox"/> Mark Seidelmann, P.E.	<input type="checkbox"/> _____
1st Vice President	<input type="checkbox"/> Carlos Vazquez, P.E.	<input type="checkbox"/> _____
2nd Vice President	<input type="checkbox"/> Chris Nye, P.E.	<input type="checkbox"/> _____
Treasurer	<input type="checkbox"/> A.J. Smith, P.E.	<input type="checkbox"/> _____
Secretary	<input type="checkbox"/> Firat Sever, P.E.	<input type="checkbox"/> _____
Member-at-Large	<input type="checkbox"/> Brooks Vogel, P.E.	<input type="checkbox"/> _____

OHIO COUNCIL OF LOCAL SECTION DELEGATES (Pick up to 8 of 9)

<input type="checkbox"/> Peter Narsavage, P.E.	<input type="checkbox"/> James Pajk, P.E.
<input type="checkbox"/> Gregory Barden, P.E.	<input type="checkbox"/> Bethanie Meek, P.E.
<input type="checkbox"/> Carolyn Merry, PhD.	<input type="checkbox"/> Michael Mazzoli
<input type="checkbox"/> Robert Redfield	<input type="checkbox"/> _____ (write-in)
	<input type="checkbox"/> _____ (write-in)

TWO WAYS TO VOTE. PLEASE VOTE BY MAY 8, 2014.

1. ASCE members who have paid their section dues should receive an email with a link for online voting. If you do not receive the email invitation, send a request to asce@centralohioasce.com and we will send you one.
2. Send hard-copy ballot to: Adam Rich, 4151 Executive Parkway, Suite 320, Westerville, OH 43081

ABOUT PRESIDENT ELECT STEVENS

The April luncheon will feature a presentation from President-elect Robert (Bob) D. Stevens, Ph.D., P.E., AICP, F.ASCE. Bob will serve as ASCE President-elect until becoming President in October 2014. He is executive vice president at ARCADIS U.S., a member of the ASCE Board of Directors (BOD), ASCE Foundation Board, ARTBA BOD, and ARTBA Planning & Design Division BOD. He was a member of EWB-USA's BOD 2010-13, Chair ASCE's Standing Committee on Technical Advancement, Chair ASCE T&DI Administrative Committee, and 2009-12 Technical Region Director on ASCE's BOD.

Bob's 49-year engineering career was in transportation, water and wastewater projects. He worked on environmental assessments, planning, design and construction management for road, bridge, rail, port, transit projects and dams. He managed the first design/build/supply transit project in North America.

Besides living and working in Ohio, Michigan, Illinois, California, Colorado and Texas, he worked on projects in 21 countries including 2 that he lived in (Canada and Taiwan) and 19 he did projects for (Albania, Brazil, Bulgaria, Cameroon, Macedonia, Mexico, Mozambique, Nepal, Pakistan, Paraguay, Peru, 7 south African states and Turkey).



He taught undergraduate and graduate transportation courses at The University of Akron, Cleveland State and The University of Michigan. His career includes jobs in the public and private sectors.

Bob was a founding governor and officer of ASCE's Transportation & Development Institute. He was a member of a number of ASCE committees including Audit Committee, Program Committee, Strategic Planning Committee, Committee on Professional Practice, Journal of Management in Engineering Editorial Board, Task Committee on Branding, and Paraprofessional Task Committee.

He is a registered professional engineer in 7 states including California, Colorado, Florida, Georgia, Louisiana, Ohio and Texas. Since retiring in August 2007 from his position as Transportation Practice Director at ARCADIS in Denver, he moved to Texas to be close to his grandchildren where he continues to work for ARCADIS on a part-time basis in Fort Worth.

FREE WEBINAR - STORM INFILTRATION BASINS

What: Free Webinar - 1.0 PDH

When: Monday, April 21, 2014

12:00 PM - 1:00 PM

Bring your own lunch

Where: E.L. Robinson Engineering, Inc.

1801 Watermark Drive, Ste 310

Columbus, OH 43215

Topic: Stormwater Infiltration Basin Design

RSVP: To newsletter@centralohioasce.org by Friday, April 18, 2014.



- Soils and seasonal high water table evaluation
- Topography and other site constraints
- Design volume determination
- Bypassing excess volumes or over size the basin
- Advantages and disadvantages
- Maintenance considerations

Learning Outcomes

- Identify sites that are well suited for the use of infiltration BMPs that rely on appropriate in-situ soils
- Understand primary design considerations
- Determine treatment volume and account for runoff volumes from storms that exceed the design storm
- Learn limitations of the use of infiltration basins through design examples and real world challenges

*Open only to Central Ohio ASCE Section Members.

*Seating is limited to the first 25 people.

Purpose and Background

As the National Pollutant Discharge Elimination System (NPDES), state and local water quality management regulations increasingly limit impacts to receiving water, stormwater management and the use of Best Management Practices (BMPs) have become a primary design consideration for most civil engineering projects in the U.S. Many states provide stormwater BMP design guidance documents to aid engineers with the selection and proper design of many types of structural BMPs. However, with the variability of soils, topography and other design constraints that occur between sites, it is often difficult to determine which BMP will be the most appropriate and cost effective solution. This webinar will review guidance documents and use example projects to demonstrate how to determine when a site is appropriate for the utilization of dry bottom infiltration basins that rely on in-situ soils for stormwater quantity and quality treatment.

Webinar Outline

- Determine your regulatory requirements
- Design criteria

Webinar Benefits

- Learn how to find sources for design guidance
- Improve understanding of infiltration basin design
- Gain understanding of how soils, water table and other site constraints govern design
- Become familiar with treatment volume determination and bypass methods
- Solidify concepts through example projects

The Central Ohio Section of ASCE sponsors free continuing education webinars as a service to our members. These webinars are produced by ASCE and normally cost \$250 or \$300 for ASCE members. However, the Central Ohio Section is paying the registration fee and inviting any interested section members to attend for free. Just RSVP by the deadline. Seating is limited, so do not delay.

You can see [the complete list of webinars available from ASCE National on their website](#). If you see one you like, let us know. If you and your company would like to host one, let us know that too. If you open it up to any interested Central Ohio ASCE section members to come, we will pay the registration fee.

OHIO ENGINEERS LEGISLATIVE DAY

What: Ohio Engineers Legislative Day

Joint program with OSPE

4 CPD hours available

When: Wed, May 28, 2014

9:00 AM - 1:45 PM

Where: The Capital Club - Columbus, OH

Please join the Ohio Society of Professional Engineers, with ASCE Ohio Council of Local Sections as co-sponsor, for the 2014 Ohio Legislative Day. Sessions will be held on pertinent legislative topics affecting the engineering profession, with the sessions being presented by industry and legislative leaders.

The program includes a representative of ASCE's headquarters, tentatively scheduled to be the lunch speaker, Brian Pallasch, the head of ASCE's national legislative program.

Use this opportunity to visit your legislator's office following the program to encourage their support of infrastructure and industry related issues.

More details will be announced soon, or you may contact Dave Pritchard at davepritchard@sbcglobal.net for



FREE WEBINAR - BOLTED AND WELDED CONNECTIONS

What: Free Webinar - 1.5 PDH

When: Wed, April 23, 2014

12:00 PM - 1:00 PM

Bring your own lunch

Where: E.L. Robinson Engineering, Inc.

1801 Watermark Drive, Ste 310

Columbus, OH 43215

Topic: Practical Design of Bolted and Welded Steel Connections

RSVP: To newsletter@centralohioasce.org by Monday, April 21, 2014.



- Welded connections
- Simple shear connections

Learning Outcomes

- Become familiar with the latest connection provisions in the AISC Specification and AISC Manual
- Learn about the many topics involved in the design of bolted connections, such as which methods of bolt tightening are reliable, when washers are needed, and how to design bolt groups for eccentric loading
- Explore the methods of assuring ductility in single plate bolted connections
- Understand how the rules for designing welds and weld groups have changed
- Work through a number of design examples involving eccentric loading on fillet weld groups
- Discuss the design method of treating a fillet weld as a line and discover how this method can be used for eccentric load cases not included in the AISC Manual
- Explore the multitude of practical weld related topics such as whether one-sided welds are acceptable, how to weld in winter, and if welding through coatings is acceptable
- Find out the answers to the questions you always wanted to ask, such as where does a beam-to-column bolted connection eccentricity go, whether there is still a requirement for a minimum connection capacity, what steps to take for making slip critical connections to galvanized surfaces, and whether to connect the fillet welds on the opposite sides of a common plane

*Open only to Central Ohio ASCE Section Members.

*Seating is limited to the first 25 people.

Purpose and Background

Design of steel connections goes hand-in-hand with the design of structural members. Quite often the connection proves to be the weakest point of the structure, with predictable consequences. Indeed, a number of recent construction failures and accidents that led to inevitable litigation involved steel connections. There is plenty of information on the topic, but some engineers may not have kept up with the changes in the authoritative documents and still use obsolete design procedures. While many of the old designs worked well enough, there is a good practical reason to learn about the new approaches, as they tend to yield more economical solutions.

This webinar provides a concise and to-the-point overview of the most practical issues involved in the design of bolted and welded connections found in structural steel buildings. A number of design examples using the tables in the Manual and other sources illustrate the practical design approaches to handling groups of bolts and welds.

Throughout the webinar, the instructor points out some of the issues that are still not fully resolved and those where design practices tend to differ among engineers.

Webinar Outline

- Bolted connections

The Central Ohio Section of ASCE sponsors free continuing education webinars as a service to our members. These webinars are produced by ASCE and normally cost \$250 or \$300 for ASCE members. However, the Central Ohio Section is paying the registration fee and inviting any interested section members to attend for free. Just RSVP by the deadline. Seating is limited, so do not delay.

You can see [the complete list of webinars available from ASCE National on their website](#). If you see one you like, let us know. If you and your company would like to host one, let us know that too. If you open it up to any interested Central Ohio ASCE section members to come, we will pay the registration fee.

CALL FOR CAD INSTRUCTION VOLUNTEERS



Beginning in January, the ASCE Younger Member Group began presenting instructional Autodesk Civil3D Computer

drafting software and provide an introductory level of instruction to familiarize students with the skills necessary of a typical entry-level engineering position. The sessions are bi-weekly sessions, and any assistance from the Central Ohio Section to help supplement our teaching group would allow us to add more lessons for the students. This is also a great way to see prospective interns in action learning valuable job skills. Please contact Matt Baxendell (Matt.Baxendell@woolpert.com) if you're interested in taking part.

Aided Design (CAD) seminars on the campus of the Ohio State University. The seminars introduce students to

2013-2014 CENTRAL OHIO ASCE MEETINGS

Meeting Date	Topic	Group(s)	Location	Coordinator
Thursday April 17, 2014 Lunch	ASCE National President-Elect Robert Stevens	ASCE	Schmidt's Sausage Haus	Bob Redfield/ Carolyn Merry
Thursday May 15, 2014 Lunch	Columbus Biofilters / Annual Awards Lunch / ASCE Region 3 Director	ASCE	Villa Milano	Greg Barden
T.B.D. June 2014 Dinner	2014-2015 Planning Meeting	ASCE	Tommy's Pizza, Dublin, Ohio	ASCE
Friday June 13, 2014 Lunch/Dinner	Annual Golf Outing	ASCE	Darby Creek Golf Club	Jim Pajk (ASCE)

FREE ON-DEMAND WEBINARS

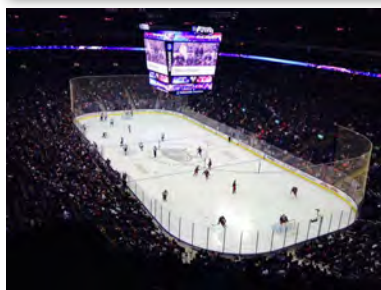
As a benefit to members, in 2014 ASCE is offering five free, on-demand webinars good for one PDH each. You may choose up to 5 webinars from the 60 on-demand webinars listed [HERE](#). Each one is a 1-hour webinar worth 1 PDH. That's 5 free PDHs from our comprehensive continuing education library – just for being a member! Categories include *Environmental, Geotechnical, Hydraulics and Water Resources, Management and Practice, Structural, and Transportation*.

Not a member? Join online or call Customer Service at 800-548-ASCE (2723) or 703-295-6300, Monday-Friday, 9:00 a.m. – 6:00 p.m., ET to take advantage of this exclusive member benefit.

Webinars must be taken by December 31, 2014.



BLUE JACKETS HOCKEY GAME



On Tuesday, April 1 the Central Ohio Section, accompanied by the Central Ohio Section of the American Society of Highway

Engineers (ASHE), hosted the second-of-the-season Blue Jackets hockey game outing.

Tickets were offered at a discounted rate for members and guests, and the Younger Members Group hosted a social at Brothers prior to the game for fun and fellowship. A total of 62 members of ASCE and ASHE and guests attended the game to see a thrilling overtime game that unfortunately ended with the Colorado Avalanche as the victors. A great time was had by all!

Please be on the lookout for more exciting, affordable social events for members and guests in the upcoming months.

KEEP UP TO DATE

Join Our E-Mail List!
Stay up to date with current news - go to <http://centralohioasce.com/e-mail>.

Web: www.centralohioasce.com
E-Mail: asce@centralohioasce.com

BOARD MEETING

*Our Next Board Meeting
Will Be 11:30 AM
April 24, 2014
Location: T.B.D.
3000 Corporate Exchange Dr.
Columbus OH 43231*

SHALE ENERGY ENGINEERING CONFERENCE



SHALE ENERGY ENGINEERING CONFERENCE

Pittsburgh, Pennsylvania | July 21 - 23, 2014

New technologies that utilize horizontal drilling and hydraulic fracturing techniques have led to a rapid expansion of the shale oil and gas industry, offering access to new sources of hydrocarbon fuels that hold the promise of energy independence for the United States. At the same time, there has been public concern about the potential environmental effects of these technologies, with environmental regulations being implemented at the state and federal level in response to their rapid deployment.

Civil and Environmental Engineers have as their core mission the protection of the public health, safety, and welfare. The goal of this conference will be to provide a forum for: (1) discussing the

technical challenges associated with shale oil and gas development, (2) exploring the critical environmental issues that exist in this area, and (3) presenting balanced public policy solutions that can be used to safely develop our shale oil and gas resources. The conference will focus on the challenges that lie ahead with developing the means and methods to carefully monitor all aspects of shale oil and gas production, and will encourage and promote the development of technologies that allow for cost effective shale oil and gas exploration, while minimizing the impact on water resources, geological stability of impacted areas, air quality, and infrastructure assets such as roads, pipelines, water, and wastewater networks.

Click [HERE](#) for more information.

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EMPLOYMENT OPPORTUNITIES

As a service to our members and colleagues who may be seeking employment opportunities, we have provided links directly to *Human Resources* or *Careers* pages on the company website below. Please click any of the company logos to visit the site. We thank the companies below for their support of the Central Ohio Section of ASCE.

The ASCE National website also provides employment assistance with hundreds of job postings and additional resources. Please click the image to the right to visit the webpage.

The screenshot shows the ASCE website's career section. It includes navigation links for Knowledge & Learning, Leadership & Management, Issues & Advocacy, and Membership & Community. A 'JOIN TODAY!' button is in the top right. The main content area features a 'JOIN THE ENERGY REVOLUTION' banner for NUSCALE POWER, a 'Job Search' section with filters for keywords, location, and date, and a 'Featured Job' listing for a Senior Geotechnical Engineer at GeoEngineers, Inc. in Boise, ID. The job description mentions a degree in Geotechnical Engineering, 5+ years of experience, and a salary range of \$100,000 to \$150,000.

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