



# TRIKO Valley News

Volume 13 , Issue 2 - November 2013

## From Our President...



Matt Loeffler  
Bulter County  
Engineer's Office

It is hard to believe that the holiday season is already here! The ASHE TRIKO Valley Holiday Party will again be at Star Lanes at Newport on the Levy on Wednesday, December 4th from 6:00-9:00 p.m. Last year's social event was a lot of fun. I am sure this year will again offer a good time for all. For those who could not make it last year, your reservation includes our own private bowling lanes, two private lounge rooms, billiards, heavy appetizers, and drinks. Please RSVP by going to the TRIKO Valley website. I hope to see you there.

In September, our General Membership Meeting was well attended. Attendees learned about the US 50/River Road/Waldvogel Viaduct/Sixth Street Expressway Reconstruction Project. On behalf of the ASHE TRIKO Valley membership, I would like to thank Joe Vogel for a great presentation.

Once again, time is running out on the Highway Trust Fund. This seems like a yearly occurrence. There is still a lack of commitment by our elected officials in Washington, D.C. to find a long-term solution to the Highway Trust Fund. By latest accounts, the Highway Trust Fund is due to run out of money by March 2014. Our leaders continue to debate funding options like tolls, private-public partnerships, raising gas tax, and pay per travel (VMT). Please voice your opinion to the elected officials who represent us.

The Donald C. Schramm Transportation Improvement Award submittal deadline is fast approaching. Applications must be submitted to Eric Beck by December 13th. The TRIKO Valley Board of Directors is looking forward to receiving your submittals for the under \$3 million and over \$3 million categories. The goal is to receive at least three submittals in each category. You can find the application and submittal details at [www.ashe-trikovalley.com/Awards.htm](http://www.ashe-trikovalley.com/Awards.htm).

In October, we finalized our membership assessment to ASHE National. The TRIKO Valley section officially has 160 members. Please consider asking a friend or co-worker to join ASHE or invite them to a lunch as our guest. The Holiday Party is a great event to introduce a potential new member. I look forward to seeing you all there on December 4th.

I wish everyone a safe and happy Thanksgiving.



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*The mission of the American Society of Highway Engineers is to provide a forum for members and partners of the highway industry that supports education, innovation, and fellowship; promoting a safe and efficient highway system for mobility now and in the future.*

# ASHE-TRIKO Valley General Membership Meeting Minutes

## September 24, 2013 - Montgomery Inn Boathouse

President Matt Loeffler called the meeting to order with the Pledge of Allegiance at 11:45 a.m. and introduced the new Board of Directors. Three guests were recognized and Matt announced that we have 14 persons that need to renew their membership yet.

Eric Kistner presented the Treasurer's report, announcing a beginning balance of \$25,740.30, income of \$12,103.00 and expenses of \$9,527.33 resulting in operating capital as of September 23, 2013 of \$28,315.97. We have 159 members currently and are waiting for 14 members to renew.

David Emerick gave the secretary's report, noting that the meeting minutes from the May 21st General Membership meeting are published in the newsletter and located on the back table. Vanessa Fritsch raised a motion to accept the minutes which was seconded by Paul Schoelwer and passed.

Caroline Duffy presented the ASHE PIN, reporting that the House Transportation Committee will focus on the Water Resources Reform and Development Act passage and the new transportation funding bill, the Moving Ahead for Progress in the 21st Century Act, or MAP-21. Congressional representatives have not established long term funding for the Highway Trust Fund. The ASHE National organization will focus on getting Highway Trust Fund information out to section members and urging them as well as the general public to press Congressional Representatives regarding the solvency of the Highway Trust Fund.

Stan Harris presented the regional report, indicating that the section Schramm Award winners were forwarded on to the Region. The region is looking at realignment as far as the relationship with sections. Stan also asked us to consider placing an ad in the section newsletter for \$50 or \$150. Stan is looking for project highlight articles both for our newsletter and for the national newspaper, the Scanner. Our section is due to submit an article for the scanner and Stan can provide article guidelines. Amanda has taken over for Jim Whalen to publish the section newsletter and has done an excellent job.

Brad Ackel thanked everyone for attending the golf outing and indicated that we will be looking at a different course for next year after two years at Walden Pond. We would like to rotate courses every two or three years and appreciate any feedback on our outing, as this is our only fundraiser for scholarships.

Matt presented the membership report noting that we have a goal of 180 members and that membership is a good deal. We are also trying to build student chapters at the University of Cincinnati and University of Dayton. We would be interested in having members sponsor their co-op.

Steve Mary reported on the programs, indicating that we are interested in project tours, such as the Jeremiah Morrow Bridge. Steve asked if anyone was in attendance from the KyTC and encouraged them to provide information regarding tours of their jobs as well.

Dennis Brunton announced that applications can be turned in for the Schramm Awards until December 13th and that projects will be presented on January 21st.

Eric Beck announced that the scholarship application is online now and asked us to encourage last year's transportation engineering students to apply for \$1,500 and \$1,000 scholarships.

Matt introduced Frank O'Hare, who is our National Past President, and welcomed him to our meeting. President Loeffler then introduced Joe Vogel who presented on the US 50-River Road-Waldvogel Viaduct-Sixth Street reconstruction project that is now under construction.

Under new business, our section switched from a Google merchant account to PayPal and we believe that it is an improvement and easier to use. Membership was urged to register in advance so we get the count correct for meetings.

John Heilman noted that the triangle chapter at the University of Cincinnati is trying to become more active.

The next Board of Director's meeting is October 29th and the holiday party will be held in mid November to early December. The Schramm awards presentation will be in January and the OTEC lunch will be October 22nd, where the National ASHE president will speak.

Bill Lawall announced that PHD certificates were available at the front table as well as lapel pins.

President Loeffler accepted a motion from Bill Lawall to adjourn the meeting which was seconded by John Heilman. Matt adjourned the meeting at 1:03 pm.

Respectfully Submitted:  
David Emerick  
TRIKO Valley Section Secretary



# ASHE TRIKO VALLEY MEETING HOLIDAY PARTY

Wednesday, December 4, 2013

Please join us for a social event including bowling and food at  
Star Lanes at Newport on the Levee from 6:00 - 9:00 PM!



Cost per person: \$30.00  
Spouses are welcome to attend!

Includes appetizers, pizza, soft drinks, and  
unlimited bowling on 4 private bowling lanes

Cash bar also available for alcoholic beverages

RSVP by phone to Eric Kistner at 513-842-8213  
or visit website ([www.ashe-trikovalley.com](http://www.ashe-trikovalley.com))  
and click on Meeting Link to register and pay online

## 2013 - 2014 Board of Directors

Title	Member	Company	Phone	Email
President	Matt Loeffler	Butler Co. Engineers Office	513-785-4109	loefflerm@bceo.org
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2nd Year Director	Vanessa Fritsch	URS	513-419-3451	vanessa.fritsch@urs.com
1st Year Director	Steve Mary	ODOT District 8	513-933-6594	steve.mary@dot.state.oh.us
1st Year Director	Tom Nicholson	PRETEK Group	937-641-8267	tnicholson@pretekgroup.com

## ASHE PIN Report - November 2013

As the highway cliff is anticipated at our doorstep as soon as March 31, 2014, many different organizations are gearing up to encourage our Congressional delegates to fix the number one issue for the transportation industry - the impending bankruptcy of the Highway Trust Fund. Originally thought to have funding to stay afloat until the end of the 2014 fiscal year, dwindling receipts and spending of the entire fund as per the current MAP-21 transportation legislation has led to the Highway Cliff approaching much faster than anticipated.

The ASHE National Legislative committee has met on several occasions to discuss strategy and how to use the strength of ASHE's grassroots sections to make an effective contribution to avoid the highway cliff. Joe Litvin, retired Montgomery County engineer, has joined the ASHE National Legislative committee to author a PowerPoint about the impending Highway Cliff. The PowerPoint will consist of two sections. Joe will author the front section, focusing on 'What is the Highway Trust Fund,' 'Why is it important that the Highway Trust Fund stay funded,' and 'How the Highway Trust Fund got to the point of bankruptcy.'

The second section will be authored by each section. This is where we need your help! Please start thinking and accumulating pictures and short videos documenting where there is failing infrastructure that can be remedied by funding from the Highway Trust Fund. We need each submittal to include a small blurb about how federal funding will affect the project's schedule and implementation. You will be receiving an email in mid-December about a location for you to upload your files. Then, each section will assemble the localized PowerPoint presentation for download in mid-January. This is where we need each section's help again! We will need you to submit your section's PowerPoint presentation to your local media - televisions, radio, and paper, as well as social media - in the month of February. We need to create awareness in the general public about the Highway Cliff and encourage them to contact their Congressional representatives to support a solution before March 31, 2014. Please start thinking of how you can contribute photos and videos of projects that need funding from the Highway Trust Fund. Mid-December will be here sooner that you think!

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### Advertising Opportunities!

\$50/year for small ads, \$150/year for large ad and corporate link on the TRIKO website.  
If interested, contact Stan Harris at [stan.harris@stantec.com](mailto:stan.harris@stantec.com).

Send website logos to Matt Loeffler at [loefflerm@bceo.org](mailto:loefflerm@bceo.org).



# Committee Chair Person Contact Information

The ASHE TRIKO Valley Board of Directors has several committees to help promote our organization in a variety of ways. Listed below, you can find the contact information of the chair person for each committee. If you would like to share an idea or would like to volunteer to serve on a committee, please contact the appropriate chair person. The Board thanks you for your continued support and dedication to the transportation industry.

Committee	Chair Person	Contact Information
Schramm Award	Dennis Brunton Eric Beck	dbrunton@barrett paving.com Eric.Beck@hamilton-co.org
Scholarship	Eric Beck John Davidson	Eric.Beck@hamilton-co.org concreteman8143@gmail.com
Program	Steve Mary	Steve.Mary@dot.state.oh.us
Social	Vanessa Fritsch	Vanessa.Fritsch@urs.com
Membership	Steve Proffitt	sproffitt@thelennassoc.com
Student Chapter	Nathan Moore	Nathan.moore@Kleingers.com
Golf Outing	Brad Ackel	Brad.ackel@kzf.com
Newsletter	Stan Harris	stan.harris@stantec.com
Website	Matt Loeffler	loefflerm@bceo.org
Legislative Review (PIN)	Caroline Duffy	cduffy@Barreng.com
Online Payments/PayPal	Eric Kistner	eric.kistner@stantec.com

# 2012 Schramm Award Section and Regional Winner

## Camden College Corner Road (Hueston Woods) Covered Bridge

The team of Palmer Engineering and Smolen Engineering was selected by the Preble County Engineer's Office to design the replacement of a Warren polygonal pony truss over Four Mile Creek adjacent to the Hueston Woods State Park. Preble County is widely known for its impressive inventory of timber-covered bridges. Former County Engineer Steve Simmons and current engineer Kyle Cross recognized the project location as ideal for a signature covered bridge.

The design team began work in 2009 by preparing a preliminary alignment and hydraulic analysis. It was necessary to realign Camden College Corner Road to alleviate safety concerns and sight distance problems and provide a more aesthetic approach to the proposed covered bridge. Palmer Engineering worked with Preble County, ODOT District 8, and utility representatives to address design criteria, environmental commitments, and utility relocations. Once the alignment was set, coordination with Smolen Engineering on the design of the superstructure commenced. Smolen has designed a number of new timber covered bridges in the State of Ohio and elsewhere, including the eponymous Smolen-Gulf Bridge, the longest covered bridge in the nation at 613 feet long.

The finished structure is a single span covered timber bridge consisting of both a truss structure and arch components. The covered bridge is 28'-0" wide with two 10'-0" lanes and two 4'-0" shoulders with separate enclosed walkways for pedestrian access cantilevered from the main span truss. The footers and abutments are comprised of 500 cubic yards of concrete and 40,000 lbs. of steel reinforcement. The timber structure is constructed with 104,100 board feet of lumber. This structure will support 40 ton truck and trailer traffic and has a life expectancy of over 100 years. Concrete abutments are founded on driven steel h-piles. Due to the sensitivity of the timber arch members to movement of the abutments, it was necessary to perform complex analyses of the behavior of the abutments under various loading conditions. These analyses determined that the abutments could translate up to 1/2" before the arch members would shed their load carrying capacity to the vertical and diagonal truss members, which would be insufficient to carry the load on their own. This limitation was addressed in the design of the deep foundations.

The project was awarded to Brumbaugh Construction, of Arcanum, OH in September 2011, constructed from October 2011 thru May 2012 and opened to traffic in Summer 2012. A dedication ceremony and ribbon cutting was held on June 24th, 2012. This is the 8th covered bridge in Preble County. Total cost to design and construct the Hueston Woods Covered Bridge was \$1,997,500, including Preble County's local share of \$266,083.20.

The bridge is now a focal point of Hueston Woods, drawing visitors to the north end of the park. The design team was fortunate to have the cooperation and dedication of the staff at the Preble County Engineer's Office, local utility representatives, and District 8 ODOT employees. Significant hurdles throughout the project life were navigated effectively through the hard work of these individuals.



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# ODOT Project Feature

## Jeremiah Morrow Bridge - Interstate 71, Lebanon, Ohio

The Ohio Department of Transportation is pleased to open the first of two new replacement structures for the Jeremiah Morrow Bridge located along Interstate 71 between Columbus and Cincinnati. Known as the tallest bridges in Ohio, the new structures are 239-ft above the scenic Little Miami River, and are the first concrete segmental box girder bridges constructed by ODOT.

The replacement bridges are post-tensioned cast-in-place segmental concrete box girder structures on concrete piers built utilizing the balanced cantilever method of construction. The twin structures have six spans, with span lengths of 450-ft for each of the four interior center spans, each totaling to 2,235-ft in length. The new deck roadway is 52-ft wide between vehicular barriers, and is striped for normal conditions as two 12-ft wide travel lanes with an auxiliary break-down/emergency lane and a 10-ft and six-ft shoulder. A single bridge can also alternatively support two lanes of traffic in both directions with a two-ft median and 3-ft shoulders; this will allow, if necessary, for the parallel structure's shutdown without impacting available traffic lanes on I-71.

All pier substructure elements are outside of the Little Miami River, with one pier within the floodplain. Four of the five piers are monolithic with the box girder superstructure; one exterior pier and both bridge abutments support the superstore on sliding, multi-directional bearings. The pier columns are composed of distinct lower hollow box pier sections and upper 65-ft tall twin-wall configuration for a maximum pier height of 219-ft.



The location of these bridges over the Little Miami River, a National Scenic Waterway, necessitates an environmentally-sensitive method of construction. Using moveable overhead form travelers, the box girder is cast without the use of scaffolding or falsework, providing minimal impact to the environment, an economical method of construction, and an accelerated schedule. The variable-depth single cell box girder has inclined 1'-6" thick web walls and a bottom slab varying in depth from 9 1/2" to 3'-8". The top deck is cantilevered 12'-6" on each side of the web walls, and is nominally 12" deep. Design 28-day concrete compressive strength is 6000psi.



Under balanced cantilever construction, each 16-ft long box girder segment is post-tensioned with internal longitudinal cantilever post-tensioning tendons comprised of twelve to twenty-two 0.6"-inch diameter steel strands stressed from one end. The top deck slab is also post-tensioned transversely with four-strand tendons in flat ducts to meet the design criteria of zero tension in the top slab under structure dead loads.

Internal post-tensioning is further utilized for continuity once closure between cantilever superstructure tips is achieved. Both internal bottom slab and top slab tendons are utilized and stressed immediately after casting the 8-ft

long closure segment. Finally, external post-tensioned tendons housed inside HDPE ducts and anchored inside of the box girder segment are stressed to add further capacity for live load as well as time-dependent strain losses and moment redistribution.

Following demolition of one of the existing bridges scheduled for this winter, construction will begin immediately on the twin structure, with final completion anticipated in 2016.





# Donald C. Schramm Transportation Improvement Awards 2013

American Society of Highway Engineers Triko Valley Section

**Entry deadline is quickly approaching - December 13th!**

## CATEGORIES

- **Construction Cost \$3,000,000 and under.**
- **Construction Cost over \$3,000,000.**

## ENTRY SUBMISSION

- **Completed entry form (Original).**
- **Two (2) copies of project description and related materials (see entry requirements).**
- **Send all entries to Eric Beck at 223 W. Galbraith Road, Cincinnati, Ohio 45215.**

## CALENDAR FOR 2013 AWARD

- **December 13, 2013 – Entry Deadline**
- **January 3, 2014 - Review and rating of entries by the Board of Directors**
- **By January 7, 2014 - Top three (3) rated entries in each category will be notified**
- **January 21, 2014 - General Membership Meeting - Presentation to general membership by top three (3) rated entrants from each category. (Final selection to be determined by the general membership by closed ballot.)**
- **March 18, 2014 - General Membership Meeting - Awards presentation**

**For more information, visit  
<http://www.ashe-trikovalley.com/Awards.htm>**

## General Membership

Brad Ackel	Richard Engle	Aaron Littman	Penny Rike
Jamal Adhami	Joe Espelage	Hao Liu	Donald Roberts
Bob Adleta	Jeremy Evans	Matthew Loeffler	Dave Rotella
James Arbuckle	William Fair	Austin Long	Doug Royer
Eric Beck	Dan Ficker	Michael Lorenz	Ali Saleh
Bryan Bender	Jason Fischer	Daniel Mahaney	Paul Schoelwer*
Gerard Berding	Andy Fluegemann	Patrick Manger	Dale Schweiterman
Gabriel Bitar	James Freeman	Benjamin Mann	Steven Shadix
Douglas Brand	Vanessa Fritsch	Steve Mary	William Shefcik
Ben Brandstetter	Bronson Funke	Shawn Mason	Richard Shelley
Bruce Brandstetter*	Dan Furgason	Daniel McAdams	Kar Singh
Jim Brannon	Todd Gadbury	Joe Mellman	Casey Smith
William Brayshaw	Matthew Gerken	Matthew Menche	Stefan Spinosa
Tom Brayshaw	Timothy Gilday	Stephen Miles	David Spisak
John Brazina	Jeff Glowka	Richard Miller	Phillip Stegman
Wayne Breitenstein	Paul Goodhue	Douglas Miller	Craig Stephenson
Jon Brunot	Paul Gruner	Cindy Minter	Jacob Stremmel
Dennis Brunton	Corrin Gulick	Nathan Moore	Michael Sturdevant
Michael Bryson	Stan Harris	Bryan Mount	Dwight Stutz
Stephen Butler	Steven Hartke	Aaron Muck	Cindy Taylor
Carol Callan Ramler	John Heilman	Michael Murry	Michelle Terrell
Shawn Campbell	Jeff Heimann	Jeff Newby	Michael Thompson*
Tammy Campbell	Mark Henderson	Tommy Nicholson	David Tomley
Kathy Carsey	Christine Hilbert	Ralph Norman	Robert Trenkamp
Josh Carter	Kelly Hollatz	Christian Nyberg	Daniel Unger
Donald Cash	Theodore Hubbard	Frank O'Hare	Greg Urasek
Timothy Casto	Brad Hyre	David Orr	Joseph Vogel*
Christopher Clemons	Dennis Jennings	Darren Owens	Jeffrey Wallace
James Collins*	Tracy Jones	John Pflum	Cynthia Wallace
Will Conkin	James Jurgensen*	Duane Phelps	George Webb, II
John Davidson	James Jurgensen, II*	Daniel Prevost	Gregory Wilkens*
Lori Dearnell	Michael Keller	Steven Proffitt*	Edward Williams
Scott Dearnell	Ross Kendall	Dale Proffitt	Steven Young
Katie Dillenburger	John Kerr	Joseph Prus	Heinrich Zehetmaier*
Mark Dole	Gary Ketron	Michael Prus	
Caroline Duffy*	Eric Kistner	William Prus	
Robert Dunn	Scott Knebel	David Quimby	
Ben Dusina	Jeffery Koehn	Arudi Rajagopal	
Michael Eddy	Steven Korte	Jason Ramler	
Mary Elfers*	Wess Kroll	Etta Reed	
Nicholas Elliot	William Lawall	Brian Rhodes	
David Emerick	Michael Lenett	Mark Richardson	

\* Past Presidents