

RESC Retired Engineers & Scientists of Cincinnati

Luncheon Meeting -Tuesday, October 20, 2009 @ 11:30 am
Evergreen Retirement Community
230 West Galbraith Road, Cincinnati, Ohio 45215
www.resc.org

REBUILDING THE ROEBLING SUSPENSION BRIDGE

From horse drawn carriages in 1863 to modern traffic in 2009
By: Stan Cohen, C.E., Registered P.E. in 8 states including Ohio; RESC member
Ohio P.E. CPD Credit



How can a bridge built in 1863 for horse-drawn traffic, the first of two John A. Roebling Suspension Bridges built in Ohio, evolve to safely handle motorized street cars in 1895 and modern traffic in 2009? The answer is simple, good engineering, skillful construction experience, and the courage of the bridge owners to finance and undertake the projects.

Stan Cohen will present an engineering study of the problems facing the Covington and Cincinnati Suspension Bridge investors in a fast-changing region, and explain the re-design that widened and improved access to the bridge and provided strengthening to meet changing times and maintained traffic during construction.

We often think that lessons learned in the past should provide guidance to prevent mistakes in the future, but you might be surprised at what you will learn about modern day mistakes.

Mr. Cohen has a B.S. in Architectural Engineering, VA Tech, M.S. in Civil Engineering, 9th member, academy of distinguished alumni, department of Civil Engineering, VA Tech. Tau Beta Pi, and Phi Kappa Phi. Stan has designed and built numerous buildings, with over 1 million square feet, and upgraded several bridges.

Don't miss this fascinating account of progress in motion by Mr. Cohen -- preceded by a special appearance by John Augustus Roebling himself (as portrayed by Ashley Ford, Esq., longtime volunteer interpreter for Cincinnati History Museum at Cincinnati Museum Center)

If unable to attend the Luncheon, you may attend the 1:00 PM program. We ask that you let us know you're attending to assure adequate seating. For those requiring a P.E. CPD Certificate, please call or email Bob Haas. 859-331-2579 or RWHAAS@fuse.net

RESC TOUR HONORS INTERNATIONAL YEAR OF ASTRONOMY – 2009

On October 29, RESC members and guests will tour/visit the Cincinnati Observatory in Mt. Lookout. It boasts historic Haneford buildings in a park-like setting, the site of many weddings. Also, it has the oldest telescope viewable by the public.

Where: 3489 Observatory Place Ph 513-321-5186

When: October 29, 2009; Arrive by 11:45 am

Lunch: 1:15 pm, First Watch @ Rookwood in Hyde Park, 2692 Madison Road, Cincinnati, Oh

Reservations: John Gilman, 513 541-1147, by Oct. 26 or sign up at the Oct 20 Luncheon.
Limited to the first 25.



FUTURE PROGRAMS

November 17, 2009

Toyota Partner Robots

Ohio P.E. CPD Credit

By: Dr. Yasuhiro Ota, Toyota Motor Engineering & Manufacturing North America, Inc.

The next generation of robots that combine industrial robot technologies with the latest control technologies used in automobiles. Robots that can use tools, assist people, and live in harmony with us.

December 15, 2009

CHRISTMAS PROGRAM

The Village Voices Choir

An adult volunteer choirs of 25 members harmonizing since 1958 brings a blend of traditional carols and today's holiday songs

January 19, 2010

NEW GUINEA

By: Edward Daley

New Guinea including the western half of the island, which is controlled by Indonesia

February 16, 2010

All-Electric Saturn Sky Conversion

Ohio P.E. CPD Credit

by Tim Wieck, Chief Engineer

AMP™ Advanced Mechanical Products, Inc.

The AMP delivers 150 miles per charge, and a complete "fill up" costs about the same as a gallon of gas. And best of all, it's great looking and fun to drive. The AMP, the true 100% electric car is here.

March 16, 2010

QUEEN CITY SQUARE PROJECT

Building the Future, Cincinnati's Tallest Building

Ohio P.E. CPD Credit

By: Bob Grace, Turner Construction

Mr. Grace is the project executive responsible for all operations on a given project including contract negotiations, client services, project quality, schedule and profitability. He currently holds this role on the \$250 million Great American Tower at Queen City Square, which will be Cincinnati's largest, tallest and "greenest" office building upon its 2011 completion.

April 20, 2010

Green Issues and Solutions

Ohio P.E. CPD Credit

By: Jack Clock CMfgE, Green Energy Ohio

GEO encourages environmentally and economically sustainable energy policies and practices in Ohio. GEO promotes renewable energy (solar, wind, biomass & low-impact hydro) statewide by acting as a clearinghouse to inform Ohioans on sustainable energy.

May 18, 2010

Global Warming

Ohio P.E. CPD Credit

by Marwan Nusair, Ph.D. in mathematical physics

The data-driven view of global warming, where evidence of each source of climate change is considered and the various causes then compared, including human activity.

NO INCREASE IN ANNUAL DUES, GOLF DUES, & LUNCH CHARGE FOR 2009 - 2010

ANNUAL DUES OF \$15 ARE NOW DUE FOR 2009-2010. IN THE PAST MANY OF OUR GOLFING MEMBERS PAID GOLF DUES OF \$5 IN THE SPRING. WE ARE AGAIN ASKING GOLFERS TO PLEASE HELP THE TREASURER AND GOLF CHAIRS BY PAYING FOR BOTH WITH THEIR ANNUAL DUES.

NOTE THAT THE RESERVATION BOX PROVIDES FOR PAYMENT OF BOTH. **(\$20 TOTAL) THANK YOU.** GOLFERS: YOU STILL HAVE THE OPTION OF PAYING \$5 NEXT SPRING.

THE LUNCH CHARGE REMAINS AT \$13. NEW THIS YEAR! MEMBERS MAY PAY ONE TIME FOR THE EIGHT LUNCHESES (\$104), AND AVOID THE RESERVATION FORM AND POSTAGE & HANDLING, EACH MONTH. SIMPLY CALL THE TREASURER BEFORE THE DEADLINE TO ALLOW HIM TO ORDER THE CORRECT NUMBER OF LUNCHESES. HOWEVER, ANNUAL PREPAID LUNCHESES CANNOT BE REFUNDED IF YOU DO NOT ATTEND.

LUNCHEON RESERVATIONS

Mail Label

Zan Smith
 PO Box 30346
 Cincinnati, OH 45230

Please make sure **ALL** lunch reservations
 are **Received Prior to Friday, October, 16**

RESC Dues & Luncheon Reservation Form				MENU		
Make check payable to "RESC" and Mail six days in advance to Treasurer: ALL reservations must be received prior to Friday, October 16				Beef Burgundy Tips over wild rice with mushrooms Tossed Green Salad (Choice of 2 Dressings) Rolls and butter Homemade ice cream and cookies Beverages		
Date of luncheon		October 20, 2009				
LUNCH	Member name		\$13.00			
	Prospective Member		*\$13.00			
	Guest Name		\$13.00			
	Ohio P.E. Name**		\$13.00			
DUES ANNUAL	Membership		\$15.00			
	Golf		\$ 5.00			
*No charge when attending the first meeting and sponsored by a member			TOTAL			
Ohio P.E. Registration Number			CPD Certificate (Y/N)			
**Continuing education certificate included with the \$13.00 lunch cost.						
E-mail address						
Phone						
TREASURER Zan Smith PO Box 30346 Cincinnati, OH 45230 Ph: 513-520-4338						

The John A. Roebling Suspension Bridge, Cincinnati, Ohio



RESC GOLF SUMMARY

September 2009



As of this writing, the RESC Golf program has one more outing scheduled for Wednesday, September 23, 2009. At present there are 12 players signed up to participate in this event. It will be held at GE Park' by invitation of Mr. Don Salyards, a former employee of the General Electric Company and a coordinator for this event.

By the time you read this notice, the season will have been completed. It has been a tough year. The opening event scheduled for Fairfield, North-Trace, was a double rainout. Our second event was scheduled for Little Miami. We had to accept the third Thursday of the month and it was touch and go for rain, but it turned out to be a good day, and a good outing. The third outing was held at Avon Fields. There was a lot of skepticism about this location, but it turned out to be a pleasant surprise. The July outing at Fairfield South-Trace, turned out to be another rainout. The August outing at Twin Oaks Golf Course was brutal. We got started late, played in horrendous heat with no water available on the golf course. and finished even later! Hopefully our final outing will be more pleasant and will provide a pleasant wrap-up for a difficult summer.

The RESC Golf Program gets more difficult every year. We keep losing old and dear friends like Fred Sharn and Al Heeb, while newer younger players are hard to find. Remember why we meet, for friendship, camaraderie, and health. **We gotta keep the juices flowin' if we wanna keep it goin'.**

Thanks to all the participants and supporters of the 2009 RESC Golf Program

Golf Co-Chairs: Dick Hertzog, Enos Hayes

Coordinators: Bob Haas, George Gore, Don Salyards

Official Scoring: Homer Buescher, Bob Earley

RESC tours the "NATIONAL MUSEUM of the US AIR FORCE®

On May 26, members and their guests met at the Main Museum Complex, WPAFB. Registration is required to take the shuttle bus to the Presidential & R. & D. Galleries, where the past Presidents' "Air Force 1" planes were displayed. A number of the R & D past projects were also in those Galleries. The RESC group met for lunch at the Officers' Club. After a very fine lunch, PHD and Aeronautical Engineer, Squire Brown, spoke to the group on the history and development of the U.S. Air Force. He distributed copies of a wonderful book that he had authored on the subject.

After lunch, members visited their areas of interest with four galleries to choose from. Lee Hite posted photographs on resc.org for those that missed the trip. Thanks go to John Gilman for his patience in dealing with the "red tape" to arrange this tour.



The X-40A was an 85-percent scale version of the X-37 experimental space-access technology demonstrator. The unpowered X-40A flew several helicopter-launched approach and landing tests at NASA Dryden in 2001 to validate the autonomous guidance and navigation systems to reduce risk for the follow-on X-37 project.

Newspaper on President Truman's Desk inside the "Sacred Cow" airplane.

On April 11, 1951 MacArthur was removed from command by President Harry S. Truman for publicly disagreeing with Truman's Korean War Policy. Aboard the Sacred Cow in 1947, President Truman signed the document that created a separate Air Force.



The "Sacred Cow" was the first airplane built for presidential use.



OHIO STATE P.E. BOARD REVISES P.E. (CPD) POLICY GUIDELINES



Effective May 20, 2009, full time college faculty may claim up to 15 CPD credit's the first time they teach a course(s). Previously, no employment activities could be claimed for CPD credit. Financial Management courses are approved while Financial Planning courses are not. Speed reading courses, live web seminars do not qualify, and trade shows do not qualify.

The Ohio P.E. Board does not pre-approve program content, nor does it pre-approve the presenter or sponsor group. The RESC CPD committee will continue to make every effort to insure its CPD programs comply with the Board guidelines. Attendance records will be maintained for three years. Please contact us if you need verification of attendance or if the Board has rejected an RESC - CPD certificate in an audit.

IN REMEMBRANCE Al Heeb and Fred Sharn

Famous scientific quotes

"Everything should be made as simple as possible, but not one bit simpler." (Albert Einstein)

Not so famous scientific quotes *Said what . . . ?*

Writing to Niagara Falls Power Company:

"Trust you will avoid the gigantic mistake of alternating current." (Lord Kelvin)

RESC NEWSLETTER

10266 Kingsport Drive
Cincinnati, OH 45241