

# RES@Retired Engineers & Scientists of Cincinnati

Luncheon Meeting -Tuesday, December 15, 2009 @ 11:30 am  
Evergreen Retirement Community  
230 West Galbraith Road, Cincinnati, Ohio 45215  
visit us at [www.resc.org](http://www.resc.org)

## The Village Voices Choir

Enjoy a wonderful Christmas carol program provided by the Village Voices Choir. They are an adult volunteer choir of 25 members harmonizing since 1958 and bring a blend of traditional carols and today's holiday songs. They are homemakers, chemists, teachers, nurses, engineers, school administrators, bookkeepers brought together by a mutual enjoyment of choral singing. This is a family program designed to get everyone in the Christmas spirit. Members and their guests may attend just the program at 1:00 pm, for no charge. Note that the Luncheon charge includes complimentary wine. Don't miss this truly enjoyable holiday program.



## DECEMBER 2<sup>nd</sup> TOUR



**Cold Jet**

### **Save-This-Date**

One Hour Credit for Ohio P.E. CPD

COLD JET® **Leading Edge Emerging Technology**

**Dry Ice Blasting**, "The Cleanest Clean" A novel technique for cleaning and decontaminating food processing areas, equipment, carcasses and foods. A hands-on demonstration.

**WHEN:** Wednesday, December 2nd

**WHERE:** 455 Wards Corner Road, Loveland, 45140

at exit 54 off I-275, then south 1/8 mile, left side

**TIME:** Meet at 10:15 am (tour begins sharply @ 10:30 am)

**Lunch:** Frisch's, next door to Cold Jet®

**Reservations:** Call John Gilman at 513-541-1147



### **ATTENTION ALL MEMBERS.**

### **WE NEED VOLUNTEERS TO ASSIST IN THE OPERATION OF RESC**

Immediate openings are for a 2010-2011 1<sup>st</sup> Vice President, 2<sup>nd</sup> Vice President and for the Treasurer, who is moving. Volunteers and/or nominations for officer positions are now being accepted.

RESC is operated under the direction of a Control Board consisting of the officers and the various Committee Chairs. The Control Board meets at 9:30 am, the second Tuesday of the month, at Evergreen. These meetings are open to all RESC members. We especially encourage new members to attend and see if you wish to volunteer. The officers are elected by the membership while the Control Board appoints the Committee chairs. For Ohio P.E.'s, the participation on the Control Board is worth 2 CPD credits per year. Please contact Bob Haas Ph: 859-331-2579 or [rwhaas@fuse.net](mailto:rwhaas@fuse.net).

## **CINCINNATI OBSERVATORY CENTER TOUR**

In honor of the International Year of Astronomy, RESC members and their guest toured "The Birthplace of American Astronomy", The Cincinnati Observatory Center located at 3489 Observatory Place here in Cincinnati.

On October 29, 2009, former observatory director and Cincinnati Observatory Center Historian, Mr. John Ventre, provided an enthusiastic tour and demonstration of the first American astronomical observatory along with its history and operational capability. On behalf of RESC and tour director John Gilman we wish to thank Mr. Ventre for his efforts and for his excellent technical knowledge that contributed to an outstanding tour experience. In addition, a special thank you to Mr. Dean Regas, Outreach Astronomer, for his help with set-up and pictures.



The COC has an impressive program of educational tours for both adult groups and school children. Please see our web site for additional information in the tour section.



Former Observatory Director and COC Historian Mr. John Ventre makes adjustments to the 1904 Alvan Clark & Sons Refractor.



1843 Merz & Mahler 11" Refractor. The oldest professional telescope in the Western Hemisphere still in use nightly by the public.

## **NEW BARRINGTON IN OAKLEY WANTS TO HOST RESC LUNCH/PROGRAMS**

The rumors you may have heard are true. The brand new Barrington complex in Oakley has been trying to wrestle RESC away from Evergreen. They offer lower priced lunches and an impressive dining room. There are pros and cons for not moving. We think many members do like Evergreen, but the Control Board always welcomes comments from RESC members.

## **EVERGREEN AGAIN INCREASES LUNCH CHARGES, EFFECTIVE JANUARY 1, 2010**

It was reported in the October Newsletter that there would be no increase in Lunch charges for 2009 – 2010. Evergreen has reversed itself and is adding \$1 to the charge, for the third time.

However, the RESC Control Board felt it would be unfair to increase the charge to members after publishing the "no change" in the Newsletter and voted to maintain the Lunch charge at \$13, through May 2010. This is estimated to deplete the treasury by about \$400.

**FUTURE PROGRAMS**January 19, 2010**NEW GUINEA**

By: Edward Daley

New Guinea is the world's second-largest island, after Greenland, and Mr. Daley has been there both in 2006 and in 2009. The trips explored the interior and a complete circumnavigation of the island.

February 16, 2010**All-Electric Saturn Sky Conversion**

Ohio P.E. CPD Credit

By Tim Wieck, Chief Engineer

AMP™ Advanced Mechanical Products, Inc.

An all electric vehicle, the AMP power train delivers 150 miles per charge, and a complete "fill up" costs about the same as a gallon of gas. And best of all, its fun to drive. The AMP is a true 100% electric car.

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 the 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)

GEO is dedicated to advancing 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: Dr. Marwan Nusair, Physicist

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.

**LOOKING FOR A USED LAPTOP AND DIGITAL PROJECTOR**

RESC programs often use a PowerPoint® presentation and the services of a laptop computer, and digital projector. We do not own either device and currently borrow these units from a member. If you have or know of someone that could donate either unit to RESC, we would be most appreciative. We do not have the funds to purchase these devices. Please contact Lee Hite at 513-677-0543 or RESC@fuse.net

**OHIO STATE BOARD REVOKES P.E. LICENSES FOR FAILURE TO HAVE CPD CREDIT**

Many received the Ohio P.E. registration form and Newsletter around November 10. In disciplinary action by the Board, there were three engineers that lost their licenses for failure to complete 15 CPD credits. RESC has made special efforts to find qualified presenters to offer CPD certificates for 75% of the eight programs during eight months. This is a free service to the local engineering community. Non P.E.'s are also welcome.



There is no requirement to attend the Lunch, to obtain the CPD. Programs are the third Tuesday of the month at Evergreen. Simply let us know if you are interested and we'll put you on the email list for the RESC monthly Newsletter. Contact Bob Haas @ 859 331-2579 or rwhaas@fuse.net. Or visit www.resc.org.

**MEMBER NEEDS A RIDE**

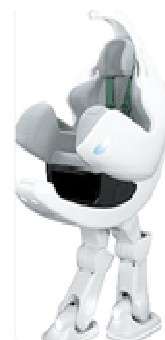
We have a member in Hyde Park that could use a ride to the luncheons if someone lives near by. If you can help, please call Robert Siegfried at 513-861-3788. or RESC@fuse.net

## RESC MEMBERS ARE IMPRESSED BY TOYOTA PARTNER ROBOT PROGRAM

The Toyota Partner Robots were first introduced in Japan in 2005. ("Partner" means the robot is your partner). Dr. Ota described how the future aging population in Japan has driven Toyota to develop humanoid robots that will assist the elderly in the medical arena as well as in performing ordinary tasks. Much of the technology from the industrial robots used in automobile manufacturing is used. Factory robots perform a single task in a controlled space. The humanoid robots will be free to roam with humans to perform the non-creative tasks such as washing dishes, cleaning, etc., that humans don't care to do. Humans can still do the creative task such as preparing a meal. Think of the robot as another appliance, such as a refrigerator, in your home.



Toyota has developed robots with artificial lips and an internal air system and fingers with 17 degrees of freedom that play a trumpet, French horn, trombone, even a violin. Picture a robot band of about eight marching around as they played various brass instruments with sound. They were playing a Herb Alpert tune in perfect harmony as they marched and swayed to the music. We were treated to a film of several other Toyota robots with up to 31 degrees of freedom, the running robot (7 kph); a guide robot that could write its name on a paper and lead you around a building; a wheel chair robot that could navigate uneven terrain. A family of four was pictured sitting at a table being served by robots.



Dr. Ota reviewed and explained current development issues. Although he sits on international committees such as IEC and ISO that are developing robot standards, there are too few countries involved. Once standards are published, industry will begin manufacturing robots. The robot exhibitions are being slowed because parts in the first generation robots are no longer available and current economic issues. Toyota is working on the second generation designs projecting completion in the next decade.

### JANUARY 13<sup>th</sup> TOUR, Save-This-Date



#### **The Green Scene**

Lots of talk about renewable energy these days but what is really deliverable and doable? You will see first hand actual solutions for using wind, solar and geothermal in addition to a tour of their building designed from the ground up to be energy efficient. A LEED Gold Certified Building

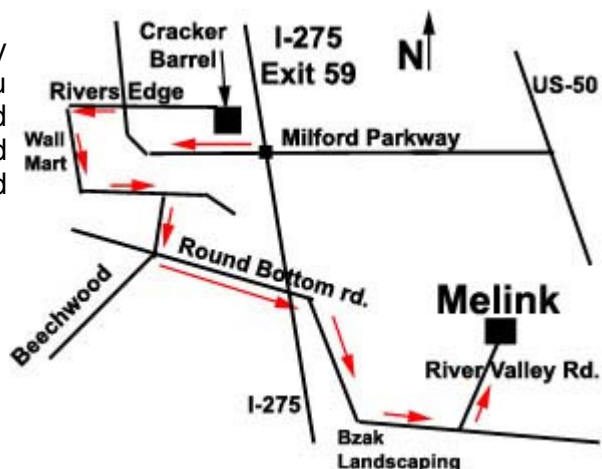
**WHEN:** Wednesday, January 13, 2010

**WHERE:** 5140 River Valley Road, Milford, Ohio 45150,  
Ph: 513-965-7300

**TIME:** Meet at 9:45 am (tour begins sharply @ 10:00 am)

**Lunch:** Cracker Barrel, 475 Rivers Edge Drive, Milford,  
Ph: (513) 831-6635 I-275 & US 50 Exit 59

**Reservations:** Call John Gilman, 513-541-1147



**LUNCHEON RESERVATIONS AND 2009 – 2010 DUES**

Mail Label

Zan Smith  
 PO Box 30346  
 Cincinnati, OH 45230

**Please make sure ALL lunch reservations  
 are Received ON or BEFORE Thursday, Dec. 10th**

<b>RESC Dues &amp; Luncheon Reservation Form</b>				<b>MENU</b>	
Make check payable to "RESC" and Mail to the Treasurer: <b>ALL reservations must be received On or Before Thursday, Dec. 10th</b>				<b>Carved Roast Beef</b>  <b>Mashed Potatoes</b>  <b>Carrots</b>  <b>Green Salad with dressings</b>  <b>Assorted hot rolls</b>  <b>Cream Pie</b>  <b>Beverages &amp; Complimentary Wine</b>	
<b>Date of luncheon</b>		December 15, 2009			
<b>LUNCH</b>	<b>Member name</b>		<b>\$13.00</b>		
	<b>Prospective Member</b>		<b>*\$13.00</b>		
	<b>Guest Name</b>		<b>\$13.00</b>		
	<b>Ohio P.E. Name**</b>		<b>\$13.00</b>		
<b>DUES ANNUAL</b>	<b>Membership</b>		<b>\$15.00</b>		
	<b>Golf</b>		<b>\$ 5.00</b>		
*No charge when attending the first meeting and sponsored by a member			<b>TOTAL</b>		
<b>Ohio P.E. Registration Number</b>			<b>CPD Certificate (Y/N)</b>		
**Continuing education certificate included with the \$13.00 lunch cost.					
Please list any CHANGE to your email, personal address, or phone number.					
<b>TREASURER</b>  <b>Zan Smith</b> <b>PO Box 30346</b> <b>Cincinnati, OH 45230</b>  <b>Ph: 513-520-4338</b>					

**SAVE A STAMP, REGISTER FOR LUNCH ONLINE**

For those of you who prefer to write a check and mail in your reservation form, nothing has changed. However, if you already pay your bills online using the "Bill-Pay" from your bank, you can use that same method to pay for your lunch reservations. It's a two step process.

**First**, go to the RESC web site [www.resc.org](http://www.resc.org) and complete the "E-mail Reservation Form" located on the home page. This will send your lunch reservation to the treasurer via email. You will receive an email conformation, if not, please call the treasurer directly. Zan Smith, Ph 513-520-4338

**Secondly**, using your online bill-pay feature from your bank, send the lunch reservation money to the treasurer. Send to: **Zan Smith - RESC; PO Box 30346; Cincinnati, OH 45230.**

**That's it!**

**IN REMEMBRANCE John Ahrens, November, 2009**

**Famous scientific quotes**

The first principle is that you must not fool yourself - and you are the easiest person to fool.  
(Richard Feynman), Caltech commencement address, 1974

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

"I confess that in 1901 I said to my brother Orville that man would not fly for fifty years."  
(Wilbur Wright)

**RESC NEWSLETTER**

10266 Kingsport Drive  
Cincinnati, OH 45241