



## **CHAIR'S MESSAGE**

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The Ohio State University  
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Dear Central Ohio ASME members:

The November program had a great turned out. I would like to thank Mike Manor of Worthington Cylinder in Westerville and his staffs for giving their time and effort to allow the ASME members the opportunity to look at their facility and their operating system. It was a very effective system in making pressure cylinders. Their effectiveness shows why they are the world's leading global supplier of pressure cylinders.

There was a misunderstanding in the location of the tour and many of our members have spent their time driving to Westerville and could not find the location. I apologize for the confusion and hope that there will not be re-occurrence in this matter.

This month program will be a presentation/discussion regarding product liability for engineers and their company. Mike Szolosi Jr. will lead the presentation/discussion. He had a unique combination of mechanical engineering degree and law degree. More information of the program, please read the "December Program" section of this newsletter.

If any of the ASME Central Ohio members have any question, comment or suggestion regarding monthly program, I urge you to contact the executive committee (EC) members or email to [suggestions@centralohioasme.org](mailto:suggestions@centralohioasme.org).

Hope to see you all soon.

Daniel Soenjoto  
Chairman, ASME Central Ohio Section.

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Hope to see you all soon.

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# DECEMBER PROGRAM

## LIABILITY ISSUES FOR PRACTICING ENGINEERS

To prevent conflict with holiday celebrations our December program is scheduled FOR NEXT WEEK, December 9, 2004. This presentation on LIABILITY ISSUES FOR PRACTICING ENGINEERS starts at 6:30 pm on Thursday December 9, 2004. It will be held at CC Technologies in Dublin Ohio.

Come spend an hour or two with ASME members discussing liability issues that affect the practicing engineer. **Michael Szolosi, Jr.** couples his mechanical engineering background with his legal skills to successfully defend engineers and the products they bring to the market in products liability lawsuits throughout Ohio. Mike will lead a discussion that addresses professional engineering malpractice, products liability law and tips for avoiding liability exposure.

**Speaker: Michael R. Szolosi, Jr., Esq.**

- BSME, GMI Engineering & Management Institute 1992
- University of Dayton School of Law, Law Degree 1995
- Licensed in the State of Ohio and Registered to Practice before the United States Patent & Trademark Office

Refer to our web site for additional meeting details.

The December meeting announcement and sign-up form are posted on the website.



**Topic:** LIABILITY ISSUES FOR PRACTICING ENGINEERS

**When:** December 9, 2004.

**Time:** 6:30 PM

**Place:**

**CC Technologies**  
5777 Frantz Road  
Dublin, OH 43017-1386 USA  
TEL: 614-761-1214

<http://www.cctechologies.com>

Maps and directions can be found at:

<http://www.cctechologies.com/maps/index.htm#>

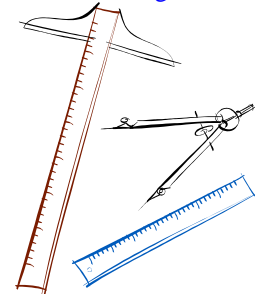
**(Refreshment will be provided)**

**RSVP by noon** on December 8, 2004

Contact Daniel Soenjoto at CC Technologies

Via phone: (614) 761-1214;

or email: [program@centralohioasme.org](mailto:program@centralohioasme.org)



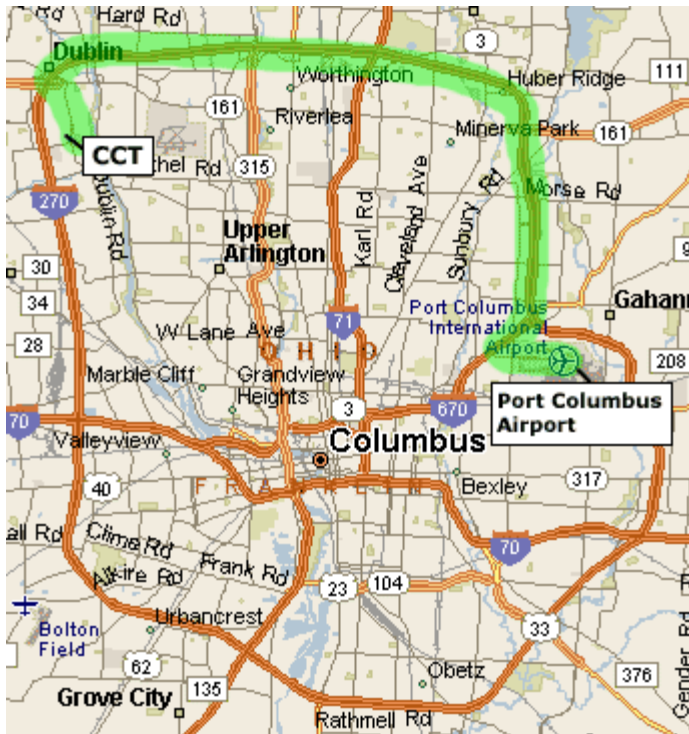
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*New Faces at November Meeting ...*

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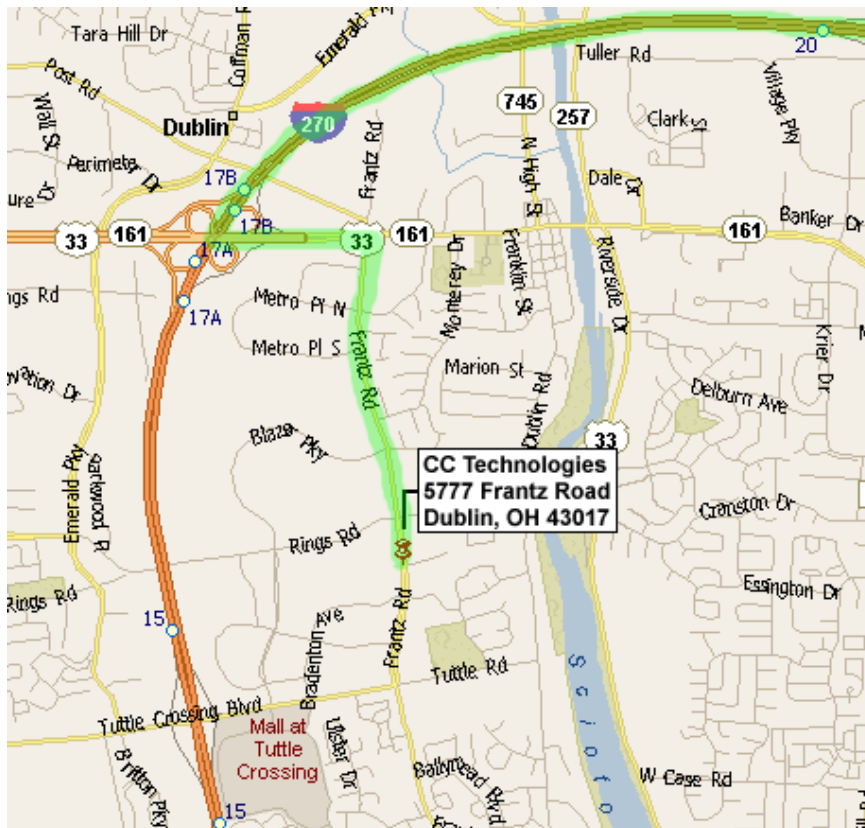
Driving directions from **Airport** to **CC Technologies**,  
 5777 Frantz Road  
 Dublin, Ohio 43017:

From Port Columbus Airport, take 270 North exiting at 17 East onto US-33 (SR-161)

Go East on SR-161 toward Dublin.

Turn right (South) at the first intersection onto Frantz Road.

**Summary:** 23.2 miles (30 minutes) Bear LEFT (West) onto Airport Exit Bear RIGHT (West) onto International Gtwy [E 17th Ave] Continue (West) on Ramp Merge onto I-670 [US-62] (North-East) Turn off onto Ramp Merge onto I-270 (North) At I-270 Exit 17, turn off onto Ramp (East) on US-33 [SR-161]. Continue on SR-161 to the first interstecion (Frantz Road). Turn RIGHT on Frantz Road. Continue on Frantz Road for approx. 1 mile. Turn RIGHT at 5777 Frantz Road.



## 2004-2005 Preview Central Ohio Section



Date	Topic	Location
December 9, 2004	<b>Legal Seminar</b> - Professional Liability Issues for Engineers and Companies	CC Technologies, Dublin, Ohio
January 20, 2005	<b>Application of Quality Concepts to Engineering Processes</b> – Amos E. Holt PhD	The Ohio State University, Columbus, Ohio
February 17, 2005	OSU Students – <b>2005 Old Guard Competition</b>	The Ohio State University, Columbus, Ohio
March 17, 2005	<b>Tour of LSP Technologies</b> – Laser Shot Peening	Dublin, Ohio
April 5, 12 & 19, 2005	<b>General Failure Analysis Tutorial</b> - 3 evening Mini Tutorial – Nominal charge.	CC Technologies, Dublin, Ohio
May 19, 2005	<b>Honors &amp; Awards Banquet</b>	Columbus, Ohio

If your company would like to host a future ASME Meeting or tour, please contact our acting Program Chair, Daniel Soenjoto, or any other member of our Executive Committee. We are always on the lookout for new and exciting activities of interest to mechanical engineers.

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### January Program to Feature ASME Distinguished Lecturer Amos E. Holt PhD

#### *Application of Quality Concepts to Engineering Processes*

The demand for products that meet design specifications and can be consistently produced (acceptable variance) is the driving force behind the use of quality concepts in management systems. Quality concepts are simply one element in a set of tools used by management to ensure their products satisfy the customer, reduce risk, maximize operational efficiencies, minimize cost of production and provide profits to sustain the operation.

This lecture considers production processes that follow some basic engineering principals executed according to well-established rules, to provide the desired outputs from a series of designed inputs. Several quality concepts such as Six Sigma, TQM, ISO, and Baldrige will be examined in light of current-day management system integration and business demands, as they apply in Research and Development (Conceptualization), Design, Construction (Instillation), Manufacturing (Operations). The ideas generated by such quality experts as Joseph Juran, W. Edwards Deming, Philip Crosby and Genichi Taguchi will be considered for relevance to problems of the 21st century. Philip Crosby in his 1984 book "Quality Without Tears: The Art of Hassle-Free Management" listed four absolutes of quality management that will be examined in light of current-day business demands. Some key questions that will be discussed; Is "99.44% pure" good enough?, is a quality system needed for R&D programs?, and do quality systems hamper creativity?

Dr. Holt is the Vice President of the Institute Quality Systems Organization, Acting Director of Institute Quality Assurance, and Executive Director of Continuous Improvement Programs. Prior to his current assignment, he served 14 years as Vice President of the Nondestructive Evaluation (NDE) Science and Technology Division of Southwest Research Institute in San Antonio Texas; 13 years as section manager of the Nondestructive Methods and Diagnostics Section at Babcock and Wilcox; and seven years as a research engineer with Bell Helicopter Company.

Dr. Holt has a Bachelors and Masters Degree in Physics, and earned a Ph.D. in Computer Information Sciences from NOVA Southeastern University in 1994. Dr. Holt has been awarded five patents and has been published in more than 60 publications relating to all areas of NDE and diagnostics.

## ***Reminders:***

**Industry focused assistance** - Industry leaders and members who would like to encourage ASME participation by their co-workers and staff please contact Greg Soller at: (614) 723-4377 or by email: [g\\_soller@hotmail.com](mailto:g_soller@hotmail.com)

**Jobs:** Our ASME Central Ohio web page <http://www.centralohioasme.org/> links to a local employment opportunity page.

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## ***Central Ohio Personnel Professionals:***

**Place your advertisement(s) for ME's here!**

Contact any of the Central Ohio Section committee members (page 1) or send e-mail requests to [program@centralohioasme.org](mailto:program@centralohioasme.org); or [truman1@asme.org](mailto:truman1@asme.org).

## Engineers Provide Sustainable Solutions Through International Volunteerism

ASME members around the world have the chance to get involved in real-world engineering projects, gaining exposure and training in internationally responsible and sustainable engineering through ASME's partnership with Engineers Without Borders™ – USA (EWB-USA).

Offering a unique opportunity for professional engineers (active or retired) and engineering students, EWB-USA is a non-profit organization established in 2000 to help developing areas worldwide with their engineering needs. EWB-USA projects may involve the design and construction of water, waste-water, sanitation, energy, and shelter systems. Projects are initiated by, and completed with, contributions and support from the local, host community, which is trained to operate the systems without external assistance. In this way, projects are appropriate and self-sustaining. The projects are conducted by groups of students under the supervision of faculty and professional engineers from partnering engineering firms and professional Societies.

ASME members should contact Diedra Hackley ([hackleyd@asme.org](mailto:hackleyd@asme.org)) if they are interested in any of the above projects, or would like to propose a project of their own.

## Register now for the Miniaturization in Biomedicine Impact Forum!



If you are an engineer, or involved in Business Development from biotech and biomedical device companies, a student, or a professional interested in the development of Nanotechnology, then this forum is for you!

The Miniaturization in Biomedicine Impact Forum will take place from April 7-8, 2005 in Irvine, Calif. at the Hilton Irvine/Orange County Airport

Learn how biotechnology and biomedical device sectors can benefit from Nanotechnology. Explore solutions that can help transform healthcare.

For more information, visit  
<http://www.asmeconferences.org/nanobio05/index.cfm>

## 2004 International Mechanical Engineering Congress & Exposition and RD&D Expo.



Visit <http://www.asme.org/congress> up-to-date and valuable information on ASME technical programs, including 500 technical sessions and 9 industry tracks. A wide range of special event (dinners & receptions, industry tours and lectures) are also scheduled to take place during Congress. The conference will take place at the Anaheim Hilton in Anaheim, Calif. from Nov. 13-19.

ASME Congress is once again teamed with the Research, Development & Design Expo, the only event dedicated to presenting the latest developments and tools in the world of engineering.

To register for the 2004 IMECE & RD&D expo, click on  
<http://www.asmeconferences.org/Congress04/ConfRegistration.cfm>

To find out how you can save \$100 on registration for IMECE, log onto:  
<https://www.xpressreg.net/register/asmeca1104/lookup.asp>.  
Offer available until Friday, Oct. 29.

## Student Activity Calendar

### December

- Dec. 1 [Wise Internship](#) application deadline
- Dec. 15 Solar Division Graduate Student Award – application deadline

### January

- Jan. 31 [Gas Turbine Industrial Fellows Programs](#) – applications deadline
- Jan. 31 Those who have not [renewed](#) their 2004-05 memberships are dropped.

### February

- Feb. 1 [Student Section Advisor Award](#) Nomination deadline
- Feb. 1 Abstract Deadline: [NDE Student Paper Competition](#)
- Feb. 15 [Arthur L. Williston Award Contest](#) – (Civic Service Paper) manuscript due
- Feb 17 2005 Local Old Guard Competition (OSU). (Prized winner)
- Feb. 20-26 [National Engineers Week](#)

## Partners In Mechanical Engineering Grants Available

The Board on Diversity and Outreach is accepting applications for Partners in Mechanical Engineering grants. All ASME Sections are eligible to apply. Grants are made on a first-come, first-served basis. For more information, go to <http://www.asme.org/communities/diversities/bdo/partners.html>

## ASME Launches ‘Communities of Practice’

ASME's Communities of Practice (COP) is an online interaction tool designed with mechanical engineer's needs in mind: links to helpful resources, industry news and, more importantly, solutions and ideas from peers. It's much more than discussion boards, because there are many tools integrated into this site to help Communities of Practice members connect with each other. Access to the Communities of Practice site is open to both members and non-members of ASME.

The Central Ohio Section has created a COP for its members to share ideas, news and local engineering topics. As with any other forum type board, the COP will be most valuable by the active use and participation by all members.

You are encouraged to sign up as a member to our COP and share your thoughts on how our local section can best serve you. The web link to the ASME COP web site is <http://cop.asme.org/COP/>. You will first need to sign in and/or register as a first time user before signing up as a member to the Central Ohio Section COP. The web link to the Central Ohio COP website is <http://cop.asme.org/COP/CentralOhioSection>.

You are also encouraged to review all the additional COP's available through this website as it is large and diverse for all areas of engineering.

Want to talk to your peers about technical matters, career and personal interests? Do you need communicate with your peers without going to a meeting or even leaving your desk?

Now ASME offers you a new tool to communicate, get the information you need and meet others with similar interests and concerns at the new ASME Communities of Practice site.

On the CoP site, you can join a community, suggest a new community, participate in discussions and polls, and post your own message or request to be notified when messages are posted on the community. Its your choice what communities you participate in, and how you choose to participate.

The Communities of Practice pages also allow you to customize your own personal page to include your communities, your own links and calendar and to access an ASME event calendar.

You will need to register the first time that you use the page, and set your preferences for your home page. It only takes a few moments – then you are ready to participate, or just observe the discussions. To visit the site, and test the features for yourself, go to [www.cop.asme.org](http://www.cop.asme.org).

## Central Ohio ASME Starts ‘COP’

The Central Ohio Chapter has created it's own a community of practice (COP) through ASME. The web URL is <http://cop.asme.org/COP/CentralOhioChapter/>

Click the URL above to use our site this week!

## Honoring Premier Pre-college Program & Contributions

The ASME Board on Pre-College Education will be honoring Premier Programs and Contributions for advancing the understanding of engineering within the pre-college community. This recognition will coincide with ASME's leadership of National Engineer's Week 2005.

Criteria for recognition include innovative programs, methods, resources or activities that have made a significant and sustained impact at the local, state, national or international level. The board is seeking nominations of individuals, groups or organizations to be recognized as a Premier Pre-College Programs and Contributions honoree. We are also accepting self-nominations. *Please visit [www.asme.org/education/precollege](http://www.asme.org/education/precollege) to download a Nomination Form.*

If you are considering applying, please let us know as soon as possible. The deadline for nominations is **Dec. 6, 2004**. For questions, contact Dawna Schultz at [schultzd@asme.org](mailto:schultzd@asme.org).

## 1st European Micro and Nano Systems International Conference a Success!

The first European Micro & Nano Systems International Conference, held in Noisy le Grand, France (near Paris) from Oct 20-21, drew approximately 100 attendees from around the world.

Managed locally by ASME's French Section, the conference attracted 5 invited talks, 38 oral presentations and 31 poster presentations. The effort was jointly organized by ASME, the ASME Nanotechnology Institute, TIMA (Techniques de l'Informatique et de la Microélectronique pour l'Architecture, France) and ESIEE (Ecole Supérieure d'Ingénieurs en Electronique et Electrotechnique, France).

Plans are being currently developed to offer the 2nd edition of the conference in Oct. 2005 in Paris, France. Sections in the US and abroad interested in organizing timely programs can explore options with the ASME Advanced Technology Program unit - contact Natasha Robertson at [nano@asme.org](mailto:nano@asme.org) or telephone: 212 591 7072

## Celebrating 125 Years of ASME

Log onto [www.asme.org/anniversary](http://www.asme.org/anniversary) for up-to-date information on events for ASME's 125<sup>th</sup> anniversary, as well as how your local section can become involved.

Events that are scheduled to take place in 2005 so far:

- **Founders Day: February 16, Wednesday**
- **Boiler Code Day: March 12, Saturday**
- **Heritage Day: April 7, Thursday**

Other events slated to take place during 2005 include landmark designations for William Seller's Screw Threads at the Franklin Institute in Philadelphia Pa and the Model-T at the



## New Benefit for ASME Members!

ASME members can now subscribe to Chemical Engineering Progress (CEP) from AIChE at their member price of \$30 – a savings off the non-member price.

This is a great benefit for mechanical engineers who work with chemical engineers or in an industry where up to date knowledge of chemical engineering is a plus. For information about the contents of Chemical Engineering Progress, please check the AIChE website ([www.aiche.org](http://www.aiche.org))

To take advantage of this offer, send your check for \$30, made out to AIChE to: John Beck, Manager, Member Records, ASME, Three Park Avenue, New York, NY 10016. Please include your ASME member number in the request. For questions, please contact John Beck at 212-591-8463 or [beckj@asme.org](mailto:beckj@asme.org)



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