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Dear Central Ohio ASME members:

Last month's program, LSP Facilities Tour, was a great success. I would like to thank Mark O'Loughlin of LSP Technologies and several of their employees for their time and effort in allowing members of ASME Central Ohio Section to tour their facilities. There were many positive comments from our members regarding the tour. If you have any further comment or suggestion regarding any of our programs, I urge you to contact any of our executive committee (EC) members or email to suggestions@centralohioasme.org.

This month program will be a technical tutorial on failure analysis. This will be a three (3) consecutive Thursday evening tutorial that will be conducted in CC Technologies, Services, Inc. at their Dublin facility: April 14, April 21, and April 28. Dr. Carl Jaske, P.E. and Mr. Michiel Brongers, P.E. will be the presenters for this tutorial. They both have many years of experiences analyzing variety of failures throughout their career. More information regarding the tutorial and the presenters can be found in the April Program section of this newsletter.

Due to the high demand, the 3-night ASME Failure Analysis Tutorial is sold out for April. However, in response to many inquiries a second class is being offered on Tuesday evenings May 3, May 10, and May 17. The sittings were limited but there are still some spaces available for the May session. Please email us at Program@centralohioasme.org for availability.

Although the failure analysis tutorial goes into the month of May, the annual Honors and Award Banquet will still be on May 19th. The 50th and 25th year members will be acknowledge during the banquet.

Hope to see you all soon.

Daniel Soenjoto
Chairman, ASME Central Ohio Section.

INSIDE THIS ISSUE

- | | | | |
|---|---|---|-----------------------------|
| 1 | Chair's Message | 4 | Student Activities |
| 2 | April Program – FAILURE ANALYSIS TUTORIAL | 5 | National News |
| 3 | Map to CC Technologies | 6 | Local Sponsors (Thank you!) |

APRIL 2005 PROGRAM

FAILURE ANALYSIS TUTORIAL

Mark your calendar now. On the evenings of Thursday April 14, 21, and 28, 2005, the Central Ohio Section of ASME will sponsor a Failure Analysis Tutorial. Each session will be from 5:30 to 8:00 PM, so the Tutorial will provide 7-1/2 hours of training in failure analysis. The tutorial sessions will be held at CC Technologies, 5777 Frantz Road, Dublin, Ohio 43017. An outline of the topics to be covered is listed below:

- Common types of failures in mechanical equipment including piping, pressure vessels, tanks, valves, fittings, and rotating machinery.
- Common material failure mechanisms including corrosion, stress-corrosion cracking, brittle fracture, fatigue, high-temperature creep, wear, and hydrogen embrittlement.
- General steps involved in performing a failure analysis.
- Methods for root-cause analysis.
- Procedures for metallurgical examination.
- Methods for laboratory analysis of samples.
- Relation of failure analysis to equipment integrity management and maintenance programs.
- Establishment of an action plan for performing failure analyses and using their results.
- Examples of typical failure analyses including laboratory demonstrations.

Instructors: The tutorials will be lead by Drs. Carl E. Jaske and John A. Beavers of CC Technologies. Both have performed numerous failure analyses. Dr. Jaske is an ASME Fellow and Dr. Beavers is a NACE Fellow. They have taught short courses, lead workshops, and presented tutorials for industry. Their detailed resumes can be found at <http://www.cctechologies.com>.

Notes: Tutorial attendees will receive a set of notes covering all the tutorial presentations.

Refreshments: Beverages and snacks will be provided at each of the three sessions.

Registration: To reserve a spot in this tutorial, contact Mr. Greg Soller at program@centralohioasme.org or (614) 799-8502. The fee for the tutorial will be as follows: (1) before April 1, 2005, \$100 for ASME members and \$125 for non-members or (2) after March 31, 2005, \$120 for ASME members and \$145 for non-members.

Checks for the registration fee should be made payable to Central Ohio Section ASME and mailed to Mr. Robert Honaker, Treasurer, Central Ohio ASME, 13483 Mottlestone Dr., Pickerington, OH 43147.

Spring 2005 Preview Central Ohio Section



Date	Topic	Location
May 3, 10 and 17, 2005	General Failure Analysis Tutorial - 3 Tuesday evening Mini Tutorial Sessions (Second Series)	CC Technologies, Dublin, Ohio
May 19, 2005	Honors & Awards Banquet	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.

The Central Ohio Section News is published monthly from September through May by the Central Ohio Section, ASME International, CC Technologies, 5777 Frantz Road, Dublin, OH 43017-1386

The Executive Committee meets the first Thursday of every month at 6:30PM. call any EC member for this month's location. You're welcome to join!

Student Activity Calendar

May

May 16 [Student Manufacturing Design Competition](#) – project description due

June

June 1 Letter of intent for [Hydro Power Contest](#)

June 10 [Solid Waste Processing Division](#) – Scholarships for graduate and undergraduate study – application due

June 16-18 [Universidad Simon Bolivar's IV Annual Student Engineering Congress](#) – Caracas, Venezuela

June 30 [Student Section officer listing](#) due

June 30 [Student Section financial report](#) due

July

July 2 [2005 ASME Student Mechanism Design Competition](#) – Project report due

HOUSE OF REPRESENTATIVES HONORS ASME ON ITS 125TH ANNIVERSARY

The U.S. House of Representatives passed a resolution congratulating ASME on its 125th anniversary. The resolution, Senate Concurrent Resolution 13 (S.Con.Res.13), which was also passed by the U.S. Senate, recognizes and celebrates the achievements of ASME and its members.

“ASME is proud to be at the forefront of engineering and scientific innovation. We're honored by the congressional recognition given to ASME for 125 years of setting the standard in engineering achievement,” said ASME President Harry Armen. The resolution commends ASME for its “key role in protecting the welfare and safety of the public through the development and promulgation of over 600 codes and standards... routinely used by industry and people in the United States and around the world.” It also notes ASME's role in ensuring “the provision of quality science, technology, engineering, and mathematics education for young people as a way to foster and encourage the advancement of technology.” Introduced by Sen. John Sununu (R-NH), a mechanical engineer, S.Con.Res.13 describes ASME as “one of the premier professional organizations focused on technical, educational and research issues of the engineering community.”

ASME TURBO EXPO 2005 – Focus on Aircraft Engine Fuel Efficiency/New Designs

David L. Calhoun, president and CEO of GE Transportation in Cincinnati, ranks fuel consumption along with maintenance at the top of the list of factors impacting costs in the gas turbine business. “We have strong efforts underway to improve fuel burn in gas turbines,” said Calhoun, citing the company's new GENx engine for the Boeing 7E7 and Airbus A350 passenger aircraft. Calhoun will be one of the keynote panelist featured at the 2005 ASME TURBO EXPO, which will open on June 6 at the Reno Hilton in Reno-Tahoe, Nev.

Other panelists include Louis R. Chenevert, president of Pratt & Whitney; John G. Rice, president and CEO of GE Energy, and Randy H. Zwirn, president and CEO of Siemens Westinghouse Power Corp and Sir Ralph Robbins, former chairman of Rolls-Royce plc in the United Kingdom. The theme of the session is "Gas Turbine Technology: Focus for the Future." For more information visit the IGTI Web site at <http://www.asme.org/igti/>



Continuity & Change Update

PMTF Decisions Continue Transition Process

The Project Management Task Force (PMTF) has made several key decisions enabling the Continuity & Change effort to move forward:

- All governing units of Sectors will be called Boards of Directors, replacing the current committee/council structures;
- The Center for Professional Practice and Development has been renamed as the Center for Professional Development, Practice and Ethics;
- And, a new project team template has been approved for [Knowledge & Communities](#).

For the latest information on Continuity & Change, log onto the newsletter:

<http://www.asme.org/change/IINEWSLTR0105.htm>

125th Anniversary News

Comic Book Engineering

A new comic strip series about engineering has been developed to help young readers learn about engineering. *Heroes of Engineering* will feature monthly short stories covering 12 decades of significant mechanical engineering feats. The series was created as an online medium to educate young people about what engineers do and how they affect our lives. *Heroes of Engineering* is available on the ASME anniversary Web site at www.anniversary.asme.org/

Engineers Without Borders Needs Mentors!

Interested in contributing your professional and technical knowledge to make the world a better place? Want to support engineering students as they help others while learning the practical aspects of engineering? Become a mentor for an Engineers Without Borders, USA (EWB-USA) team!

By becoming a professional member of EWB-USA, you will have the opportunity to mentor student projects in your local area and across the world. Each month, we send mentor opportunities to our network of professionals. EWB-USA is looking for engineers with an interest and expertise in such areas as fundraising, project management, water resources, renewable energy, structural design and cultural knowledge.

As project mentors you will oversee all the technical aspects of a project and be responsible for the selection of technology, engineering design, and prototype testing and field implementation. Along with the technical aspects of engineering, an understanding of sustainable engineering practices, openness to learning about sustainable practices in other cultures and a sense of adventure are needed!

For information on mentoring, a complete list of current projects and to volunteer, visit the EWB-USA website at http://www.ewb-usa.org/get_involved_professional_mentor.html.



CC Technologies

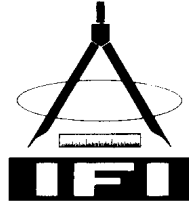
SOLVING MATERIALS PROBLEMS
THROUGH INNOVATION

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MATERIALS & CORROSION

RESEARCH - ENGINEERING - TESTING - FAILURE ANALYSIS



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