

FAILURE ANALYSIS TUTORIAL

Mark your calendar now. On the Thursday evenings of 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.cctechnologies.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.