November 13–19, 2015 • Houston, Texas
2015 IMECE
ONE GREAT LEARNING EXPERIENCE.
INTERNATIONAL MECHANICAL ENGINEERING CONGRESS & EXPOSITION

ASME Training Courses @ IMECE

To enhance the educational experience, you've come to expect at IMECE, ASME Training & Development **presents four MasterClass courses at** ASME IMECE in Houston**.**

ASME MasterClasses are advanced learning programs aimed at experienced professionals. Led by recognized experts, who are also leaders in ASME code development, these masterclass courses emphasize learning through discussion of real-world case studies and practical applications. Our experts lead in-depth discussions of current issues and best practices to inspire interactive discussion and knowledge-sharing in class.

Please Note: ASME MasterClasses are not included in IMECE Full Conference Registration and require separate registration using the links below. As a benefit to all registrants of ASME MasterClasses scheduled at IMECE, you will be able to access the IMECE exhibit hall and attend the Opening Reception, Opening Keynote Session, and the Conference-Wide Plenary Sessions. ASME MasterClass registration does not include access to the IMECE technical sessions.

ASME MasterClass courses available at IMECE include:

- **Verification and Validation in Scientific Computing** (MC133)
  November 15-16, 2015; (15 Hours · 1.5 CEUs · 15 PDHs)
  Dr. William Oberkampf, Engineering Consultant and Member, ASME V&V Committee; and
  Dr. Christopher Roy, Virginia Tech Aerospace and Ocean Engineering Professor and Member, ASME V&V Committee


This two-day course presents modern terminology and effective procedures for verification of numerical simulations, validation of mathematical models, and uncertainty quantification of nondeterministic simulations. The techniques presented in this course are applicable to a wide range of engineering and science applications, including fluid dynamics, heat transfer, solid mechanics, and structural dynamics.
Click here to learn more or to register, go to
https://www.asme.org/products/courses/asme-program-mc1018

- **Fatigue Analysis Requirements in ASME Boiler and Pressure Vessel Code Section VIII, Division 2 – Alternative Rules** (MC123)
  November 15, 2015; (7.5 Hours · .75 CEUs · 7.5 PDHs)
  David Thornton, Principal Engineer and Technical Advisor, Equity Engineering Group and Member, Joint API/ASME Technical Committee

This one-day MasterClass provides an in-depth examination of the techniques used in Fatigue Analysis of pressurized equipment. The program includes discussions on the fundamentals of fatigue, the technical background and implementation of the fatigue methods in ASME Section VIII, Division 2, and the application of the rules to solve practical problems related to cyclic operation. The fatigue analysis approaches using smooth bar and welded joint technology using the new structural stress approach will be covered in detail, including case histories to highlight the application to common Industry problems. The application of fatigue assessment to existing pressurized equipment in the new Part 14 of API 579-1/ASME FFS-1 will also be discussed. Click here to learn more or to register, go to https://www.asme.org/products/courses/asme-program-mc1018

- **Run-or-Repair Operability Decisions for Pressure Equipment and Piping Systems** (MC132)
  November 17-18, 2015; (15 Hours · 1.5 CEUs · 15 PDHs)
  George Antaki, PE, Chief Engineer, Becht Nuclear Services Division and Member ASME Code Section III Subgroup Component Design

A plant objective is to attain the maximum economic benefit and service life from existing equipment without sacrificing integrity. This requires accurate assessment of the condition of the equipment and their suitability for operability. This two-day MasterClass provides an in-depth review of the rules and application of the ASME codes and standards in making run-or-repair operability decisions for pressure equipment and piping systems. The class is based on a series of Case Studies of abnormal conditions and how to diagnose their cause, how to determine the integrity of the system or component, how to decide whether to keep the system or component in service, and how to repair and prevent recurrence. Click here to learn more or to register, go to https://www.asme.org/products/courses/asme-program-mc1018

- **Bases and Application of Piping Flexibility Analysis to ASME B31 Codes** (MC110)
  November 17-18, 2015; (15 Hours · 1.5 CEUs · 15 PDHs)
  Jim E. Meyer, Principal/Lead Engineer, Louis Perry & Associates Inc. and Chair, ASME B31 Pressure Piping Committee

This two-day MasterClass provides an in-depth review of the rules and practical application of piping analysis requirements in the ASME B31.1 Power Code and ASME B31.3 Process Piping Code that can have a significant impact on design. The program will highlight detailed example problems that demonstrate, for "real world" piping, how design and analysis and modeling assumptions can affect the results. Click here to learn more or to register, go to https://www.asme.org/products/courses/asme-program-mc1018

The MasterClass courses are now open for enrollment. An Early Bird discount of $200 is available until September 21.

To register online, go to https://www.asme.org/products/courses/asme-program-mc1018
For registration assistance, contact ASME Customer Care at 973-882-1170 or CustomerCare@asme.org

---

Course Registration and Confirmation
This training program is now open for enrollment and requires a minimum number of attendees to be conducted. A confirmation notice will be issued by ASME three weeks prior to the event, or as soon as the required level of participation is reached. ASME reserves the right to cancel an event up until three weeks prior to presentation date if the minimum enrollment is not reached. Full refunds are issued when a program is canceled.

Cancellations and Substitutions
Cancellation requests made before October 25, 2015, are qualified for a full refund less $250 processing fee. Refunds will be made within four weeks after the event. Cancellations will not be accepted after October 25, 2015. Substitutions can be made at any time by emailing customercare@asme.org. All substitutions must be registered prior to the event. "No shows" are not refundable and are liable for the full registration fee.

ASME Travel Policy
ASME is not responsible for the purchase of non-refundable airline tickets or the cancellation/change fees associated with canceling a flight. ASME suggests that attendees do not purchase non-refundable tickets until the event has been confirmed.

For more information on ASME Training & Development and Programs, visit http://go.asme.org/training

ASME Training & Development
Setting the Standard for Workforce Learning Solutions