

# *Keystone Chapter / Chesapeake Chapter American Foundry Society*

The Keystone AFS Chapter along with the Chesapeake AFS Chapter are Co-Hosting a CMI course on Gating & Riser Design.

CMI has agreed to offer a 3rd day for Vertical Gating if we can get additional attendees.

Attendees of the Gating & Riser Design course February 14-15, who would also like to learn vertical gating, can attend an optional 3<sup>rd</sup> day of class on February 16 for an additional \$175 (which will be processed as a separate registration). Individuals must register for and attend the Feb 14-15 course in order to register for the 3<sup>rd</sup> day (due to content covered in the first two days that will not be repeated for day 3).

Registration Deadline is January 24, 2012. To Register, please contact the Cast Metals Institute directly or contact Greg Hollenbach, [Gregory.Hollenbach@foseco.com](mailto:Gregory.Hollenbach@foseco.com) or Phil Waser, [pwaser@erwinindustries.com](mailto:pwaser@erwinindustries.com) with any questions.

Horizontal Course Information:

## **Gating & Riser Design (17-12)**

**February 14-15 • York, PA • Member: \$735 • Non-member: \$835**

This course, for horizontal sand molding applications, will cover both ferrous and nonferrous theory and practice. A 2-day, lecture course, topics covered include turbulence, solidification, shrinkage, metallostatic pressure effects, gating and riser system design and calculations, mold-wall movement and computer modeling, pouring times, and placement and feeding distance of risers.

### **After attending this course you will be able to:**

- Calculate runner and gate sizes for optimum fill time and minimum turbulence.
- Calculate riser sizing for optimum feeding.
- Describe the use of computer modeling for predicting filling and solidification.

### **Who Should Attend**

Foremen, patternmakers, foundry engineers, supervisors, metallurgists, and quality control personnel and estimators.

### **Instructors:**

**Ian Kay**

Hot Metal Technology, LLC

**Kevin Fleischmann**

Cast Metals Institute

### **Housing/Course Location:**

This chapter sponsored course will be held in York, PA. Specific details regarding course location and hotel room blocks will be provided upon registration.