

★ ★ ★ ★ ★ FIVE STAR CHAPTER



The Materials
Information Society

**Worcester
Chapter**

The ASM International Education Foundation and the Worcester Chapter are pleased to offer:

ELEMENTS OF METALLURGY

Who Should Enroll ?

This course is designed for Engineers, Technicians, Managers, Marketing and Sales personnel and other individuals in metal working and related fields who require, or find advantageous, an in-depth technical knowledge of metallurgical practices.

Elements of Metallurgy provides an intensive introduction to the principals of metallurgy. The course offers practical applications in various fields of metals and alloy production, testing and manufacturing processes. This course serves as an extension of the ASM Foundation education course *Metallurgy for the Non-Metallurgist*.

Program:

- Atoms, Molecules and Crystals
- The Physics and Chemistry of Metals
- Chemical Equilibrium, Heat and Temperature
- Elements of Extractive Metallurgy
- Metal Refining
- Solidification of Metals
- Solid Solutions
- Heat Treatment of Steel: Fundamentals
- Heat Treatment of Steel: Equipment and Processes
- Precipitation Hardening Heat Treatments
- Diffusion, Corrosion and Surface Treatments
- Methods of Forming Metals: Primary and Secondary Forming Processes
- Metallurgical Testing and Inspection

Course Begins:	Thursday, September 9, 2010 for 11 weeks
Instructors:	Joseph M. Oparowski - Bose Corporation Charles Innis
Location:	Worcester Polytechnic Institute Worcester, Massachusetts
Time:	6:00 to 8:00 PM
Fee:	\$550.00 for ASM Members / \$650.00 for non-ASM Members Make checks payable to Worcester Chapter ASM International
Registration Deadline:	September 9, 2010
To Enroll, Contact:	Joseph M. Oparowski - Bose Corporation - (508) 766-1371 or by email at joseph_oparowski@bose.com

Don't delay to enroll, as this is a limited local offering for this course !!!

Comments from previous MEI courses offered by the Worcester Chapter:

"Very informative and useful to my job in many areas"
"Good coverage of the material"

"I liked the many true life examples of processes"
"Practical application for the working person - Straight forward"