

Dear Materials Colleagues,

You are invited to help 35 middle and high school teachers learn about the fascinating world of Materials Science & Engineering at University of Michigan July 13-17. Volunteer Lab Assistants are needed for half or full days during the ASM "Teachers Camp".

Since 2002, the Detroit ASM Chapter and the ASM Foundation have offered a 5 day workshop to introduce middle and high school teachers to Materials Science and Engineering. The "Teachers Camp" will be held in the Dow Building on the North Campus of the University of Michigan from 8:30 a.m.-5 p.m. The workshop is about 1/3 lecture, 2/3 hands on activities in the Materials labs at U of M. The camp is free for the teachers except for a few meals and transportation to campus.

Although the workshop is taught by experienced high school teachers, volunteer "Lab Assistants" help facilitate hands on activities in polymers, metals, ceramics, and composites. The Lab Assistants are on call to help as needed. Typical duties are clarifying a confusing term, setting up and cleaning up experiments and explaining lab procedures to the teachers. The teachers appreciate a chance to talk with engineers who are working and/or have worked with materials to better understand how we apply what they are learning. (Don't worry - there are instructions for each activity.)

If you're interested in helping, please send your contact information along with your preferred date(s) to TeachersCamp@asm-detroit.org.

Tentative Schedule – Note that we have been known to flip topics to accommodate group interests so the schedule is very fluid.

Monday July 13th: Introduction to Materials, crystal structures, metals

Tuesday July 14th: Metals: Heat treating, rolling, drawing, phase diagrams, phase transformations.

Wednesday July 15th: Corrosion, Ceramics. Busy lab day with about 10 simultaneous lab stations to set up. At 5 p.m. we start "Foundry in a Box" and campus lab tours followed by dinner--have you melted tin in your microwave?

Thursday July 16th: Polymers. Busiest volunteer day--we pack kits for the teachers to take home, as well as set up/cleanup about 12 activity stations in the lab.

Friday July 17th: Composites, wrap up, done by noon.

Parking passes are provided for all participants. Lunch is provided for those who volunteer for a full day. Volunteers should wear lab appropriate clothing i.e. long pants and closed toe shoes. In addition, please bring your safety glasses with you.

Please consider volunteering. You WILL have a great time. Information packages including maps will be sent to all volunteers in early July.

Kathy L. Hayrynen, PhD, FASM
Teachers Camp Coordinator