



“The science of materials for the novice” Seminar

By Fay Butler

www.faybutler.com

Saturdays, March 17th and 24th, 2012

Assabet Vocational School, Marlboro, MA

This is a comprehensive 2-day course for the hands-on craftsman, novice and professional alike. No previous knowledge or experience necessary. It will be taught in a way that the layman will be able to understand. Understanding metals from the atomic structure can be very beneficial to a craftsman in understanding how they move, why they strengthen, and how this can cause failure. Learning the language of metals can help in communicating with others in the field and getting into the books when problem solving. Problem solving requires the ability to retrace ones steps accurately, and an understanding of science is crucial. Fay has been teaching metals this way to non-metallurgists since 1989 and has been very successful. Hands on people with no college experience have found this very understandable and beneficial.

Day 1: Metallurgy, materials, numbering systems, how they move, strengthen and fail. Demonstration of making a motorcycle fender by hand using a claw hammer and oxy-act torch. Turning a flange and installing a wire edge.

Day 2: The electric current and evolution of TIG power units and set ups. Understanding modern invertors and their parameters. Demonstration of making the same motorcycle fender with power equipment and using the TIG process. Turning a flange and installing a wire edge.

- Maximum class size 15 participants.
- March 17th and 24th, 2010 – hours 9:00 am to 3:00 pm
- Book Package Included: Metallurgy by Moniz 4th edition , Miller Power Course & a dozen page hand-out
- Pastries, Coffee & Lunch provided

Fee - \$599.00

Early bird special – sign up by January 15th and save \$75.00

Student discounts available contact Fay for eligibility:

fay@faybutler.com

413-477-6449 (shop)

413-433-6448 (cell)

Make check out to **AWS Boston Section** and send it to:

Jim Shore, AWS Boston Section

c/o 34 Coolidge Circle

Northborough, MA 01532

Other questions?

Please contact Education Chair at 508-726-0574 or jim.shore@dynisco.com



AMERICAN WELDING SOCIETY - BOSTON SECTION

A nonprofit organization founded in 1919 to advance the science, technology and application of welding.

**“The science of materials for the novice” Seminar
Signup sheet**

Name:
Address:
Email:
Phone Number:
Alternate phone number:
Did you attend the last session in March 2010? <i>Yes or No (please circle one)</i>
Amount attached:

Make check out to “**AWS Boston Section**” and send it with this completed form to:
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