MONTHLY MEETING – TOPIC

February 11, 2014
Topic: Field Repair of a 63 ton Steel Casting
Speaker: Albert Moore
Principle
Marion Testing & Inspection
Canton, CT (AMoore999@comcast.net)

Directions: Directions: The Adams Mill, 165 Adams Street, Manchester, CT 06042, Ph: 860-646-4039 (www.theadamsmill.com/directions.htm)
I 84 Take exit 62, from west turn right onto Buckland Street, continue straight for less than a mile (Buckland Street turns into Adams Street by the Manchester Honda Dealership). From east turn right at end of exit and right at light onto Buckland and follow directions above. The restaurant is on the left, a brick building set back off the road.

Agenda:
Program Charges:
Cocktails: 5:30-6:30 PM Regular Members - $28
Dinner: 6:30-7:30 PM Young Professionals - $20
Program: 7:30-8:30 PM Retirees - $15
Full Time Students - $15

Entrées must be pre-Ordered
• Chicken Adams
• Roast Prime Rib of Beef
• Fresh Oven Roasted Salmon Fillet
• Vegetarian

Technical Chairperson: Sam Christy
Reservations: Call Linda at Service Steel Aerospace 203-906-6381 or lthomas@ssacorpcom by noon February 8th Thanks!

Abstract:
The mode of failure of large presses is usually fatigue cracks that develop after years of use. In many cases, the parts that fail are irreplaceable or too costly to replace. These large machines are key to the economic viability of the companies that own them. In the case presented, the company could not continue operations until the machine was back in service. One hundred and twenty production workers were laid off while the machine was out of service. It was crucial that the machine be repaired as quickly as possible.
The repair of a casting, weighing in at 63 tons that developed a crack 28 inches in length through a 10-inch thick section will be presented. How the repair was designed, how the welding procedure was developed, how the welders were trained, and how the repair was completed in 17 days will be covered.

Bio:
Albert Moore is a principle of Marion Testing & Inspection which has provided welding and NDT consulting services and third party inspections since 1989. His practice includes clients that work in the aerospace, structural steel, shipbuilding, pressure vessel and piping, railroad, and offshore drilling/exploration industries.
Albert’s qualifications include certification as an AWS Senior Certified Welding Inspector with five endorsements. He is a NOCTI certified welding instructor and he currently holds ASNT ACCP Professional NDT Level III certifications for four NDT test methods; RT, UT, MT, and PT. He has earned an AS in Civil Technology (steel design), a BS in Applied Science and Technology (Welding), a MBA, as well as a Certificate of Professional Development from the Department of Welding Engineering of Ohio State University.
As a welder with over forty years under the welding helmet, Al has been certified for the SMAW, GMAW, FCAW, GTAW, and SAW processes on aluminum, carbon steel, stainless steel, nickel alloy, and titanium. Albert is an adjunct instructor for the American Welding Society and the American Society of Mechanical Engineers. He is a member of the AWS Certification Committee and the AWS Committee for Methods of Inspection as well as several certification subcommittees. He chairs the subcommittees responsible for the Guide to Visual Inspection of Welds and he is a member of the standing committee for the Welding Inspection Handbook. He is a contributing author for periodical Inspection Trends published quarterly by the AWS. In the 2011 AZBEE selected his articles, published by Inspection Trends for the Silver Award (2nd place) for a series of feature articles from a field of over 200 competing periodicals.