Chairman’s Message
The Pittsburgh AWS Section is proud to present a full line up of plant tours and technical presentations for its members for the 2014 – 2015 year. The calendar on our web page http://www.awssection.org/pittsburgh/ lists our current schedule.

I hope that you will find one of the meetings we have scheduled of interest and plan to attend. If you have any ideas for our chapter or suggestions for a future meeting or plant tour please contact any of our Board members.

Thank you,
George Kirk - Chairman, Pittsburgh AWS
Kkirk510@comcast.net

Technical Meeting – Tuesday, February 17, 2015
Title: Welding of Advanced High Strength Steels for Automotive Applications

Speaker: Murali D Tumuluru, Research Consultant - Material Joining, US Steel Corporation

Murali Tumuluru is an AWS Fellow and AWS Life Member. His presentation will discuss a new generation of advanced high strength steels (AHSS) that the automotive companies have developed to improve the fuel efficiency of the vehicles they build and also improve occupant protection. These AHSS grades have tensile strengths ranging from 590 to 980 MPa and possess excellent formability. In this presentation the evolution of steel grades from low strength interstitial-free steels to the new generation of steels is provided. A discussion on the problems encountered during welding of these grades of steels and potential solutions to these problems are presented. A brief discussion on the future trends in automotive architecture as well as joining trends is presented. This discussion will include the FutureSteelVehicle concept developed by the WorldAutoSteel. The proposed steel grades as well as the joining techniques envisioned for this concept vehicle are presented. Apart from conventional resistance spot welding an increased emphasis is placed on adhesive joining as well as laser welding. Research is underway to explore the use of these new and innovative joining techniques to weld a whole new generation of steels. Examples of joining techniques being explored for several high strength steels with tensile strengths higher than 1200 MPa in gauges thinner than 1 mm envisioned for this concept vehicle are presented. Some of the challenges involved in welding these steels are discussed."
Location: Springfield Grill
7001 Crider Road
Mars, PA

Time: 6:00 PM

Cost: Members and Guests - $25 | Students - $12.00

RSVP: to awspittsburghsection@gmail.com or 724-682-7552 by Monday February 16th please.

Directions:
From Route 19
Take Route 228 East from Cranberry towards Mars. Go 3.5 miles or 11 stoplights. Then turn left onto Heritage Creek Road and The Springfield Grille is to your right.

From I-79
Exit 78 Cranberry Mars - Take Route 228 East towards Mars 3 miles / 8 stoplights to Heritage Creek Road on left hand side of 228. Turn in and you will see the Springfield Grille is to your right.

From Route 8
Take 228 West towards Mars, go 4 stoplights and make a right hand turn onto Heritage Creek Road. Turn in and you will see the Springfield Grille is to your right.

From Pittsburgh International Airport
Take PA-60 South toward Pittsburgh approximately 10.7 miles. Merge onto I-79 North toward Erie approximately 17.9 miles. Follow I-79 North to exit 78-Cranberry / Mars. Merge onto 228 east (right from the exit). Take 228 East approximately 3 miles. Turn left at the stoplight at Heritage Creek Road and the Springfield Grille will be on right.

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Next Meeting – Wednesday March 25, 2015

**Title:** Joint Meeting with ASNT – Phased Array NDE

**Speaker:** System One

**Tentative Location:**