April 7th, 2016 Dinner Meeting

featuring
Mike Weaver, PE
Weaver Engineering

presenting on
Engineering Design and Strength Assessment of Aluminum Weldments for Static and Cyclic Loading with differences and similarities between 5xxx—Al, Mg and 6xxx—Al, Mg, Si (Cu) series alloys, as well as assessment with FEA (Finite Element Analysis)

Mike Weaver is a licensed mechanical engineer who has focused on weldment design and application of finite element analysis to weld assessment at his company, Weaver Engineering, since the early 1990s. He has performed design, analysis, fabrication and NDT plans, fitness for purpose and forensic studies on wind turbines, logging equipment, earth moving equipment, tunnel boring machines, tubular bridge structures, cranes, lifts, lifting fixtures, fire truck ladders, food processing machines, presses, antennas, telescopes, medical apparatus, blast chambers, bicycles and sporting equipment working with wrought and cast aluminum, steel, and stainless steel. He is on the lookout for new and challenging projects. He is the author of the FEWeld software package. He has been an active section member of the American Welding Society since 1995.

Sample Technical Question:
When aluminum welds solidify from the molten state, they will shrink about what percentage in volume?

a. 10 %
b. 3 %
c. .05 %
d. 6 %

Dinner located at the Coast Bellevue Hotel
625 116th Ave NE
Bellevue, WA 98004

HOURS:
Board 4:45 - 5:45
Social 5:45 - 6:45
Dinner 6:45 - 7:45
Program 7:45 - 8:45

Dinner is $20 for students, $40 for regular members
(If you do not plan to have dinner you are still welcome to attend the program)

TECHNICAL QUESTIONS
Bring your technical questions to the meeting (any subject) or write them there and leave at the registration table or hand hand them to Steve Pollard.

They will be discussed and hopefully answered during the dinner hour.

Please RSVP at
https://www.eventbrite.com/e/american-welding-society-april-meeting-tickets-24254561045