American Welding Society
Northern New York Section
February Meeting Notice
Joint AWS -ASM Dinner Meeting

Topic: Additive Manufacturing at GE
Speaker: Dr. William Carter, GE Global Research Center
Where: Edison Club, Riverview Road, Rexford, NY
When: February 13, 2018
Time: Social Hour; 5:30 PM
Dinner: 6:30 PM
Presentation; 7:45 PM
Cost: $15.00
RSVP: By February 6, 2018 to Bob Christoffel 518-372-8260
Or: rchristo@nycap.rr.com

About the Speaker:
Dr. William Carter joined GE's Global Research Center in 1983, and has conducted research programs in numerous manufacturing techniques including casting, coating, forging, and spray forming. He now works in the Additive Manufacturing Laboratory, where he conducts research in novel Additive Manufacturing systems, concentrating on powder bed fusion. In addition to his work at GE, Dr. Carter is an Adjunct Professor of Mechanical Engineering at Clarkson University. Dr. Carter received a
Bachelor's Degree from RIT, a Master's Degree from MIT, and a Ph.D. from RPI, all in mechanical engineering. He has published more than 80 technical articles and a book chapter. He holds 41 US patents and is the 1999 winner of the Alfred H. Geisler Award for Significant Achievement from the local chapter of ASM.

About the talk:
The Powder Bed Fusion process got its start in 1986 with an invention at the University of Texas at Austin by an undergraduate student. In the 30+ years since, it has seen steady growth resulting in a new manufacturing technology that has evolved from "rapid prototyping" to "functional prototyping," and now into full-scale production of metal parts.

Interest at General Electric started 10 years ago with investigations into reducing the cost of a fuel injector for an aircraft engine. GE quickly realized that additive manufacturing could free designers from constraints of conventional manufacturing processes, opening paths for novel fuel-saving designs. More importantly, multiple parts could be consolidated into single parts to reduce cost.

This talk will feature some of the lessons learned in that development, and highlight some of the active research in developing the process for higher speed, higher accuracy, and larger part volumes.

About the Meeting:
The meeting this month will be held at the Edison Club, on Riverview Road in Rexford. (That’s just north of the new Rexford bridge over the Mohawk River (Route 146). At the signal light at the top of the hill turn East to the Edison Club, which is on the North side of the road about a half mile from the signal light. If you come from the Northway (I-87) get off at Exit 8A (Grooms Road) and go West about 5 Miles. It will be on your right.
The dinner entrée choices will be:
Oven roasted sliced Sirloin of Beef with wine Demi-glace
Chicken Alexander with spinach, roasted red peppers and smoked Gouda
Baked Haddock with sweet cream butter. Lemon and white wine
Vegetarian eggplant Parmesan

When you make your reservation be sure to select an entrée. PLEASE NOTE THE CUT_OFF DATE FOR RESERVATIONS
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