Carolinas Central Chapter

March 2022 Meeting

Monday, March 7, 2022

Remote Meeting with Dr. Priti Wanjara, FASM

Zoom link will be sent to those who RSVP to Danny Brinkley (danwb3@bellsouth.net)

5:30 to 5:45 pm
Intro to the Carolinas Central Chapter

5:45-6:30 pm
Trustee Talk. Q&A

6:30 to 7:00 pm
Executive Committee Mtg

Thank you to our Sustaining Member

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Chapter Officers

Chair	Jackie Earle jmearle346@gmail.com 309-256-1986
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Wire-Fed Electron Beam Additive Manufacturing of Ti6Al4V

Please join us for a remote meeting on March 7, 2022 with ASM Trustee Dr. Priti Wanjara.

Dr. Wanjara is Principal Researcher and Manager at the National Research Council of Canada. She earned her B. Eng (1993) and Ph.D. (1999) degrees from McGill University in Metallurgical and Materials Engineering. She joined the Aerospace division of the NRC in 2002. Throughout her career, she has been concerned with the physical metallurgy of metals/alloys, and how this knowledge can be applied to welding process design for advanced manufacturing in the aerospace, automotive and power generation industries. She is recognized internationally as a leading material scientist in advanced manufacturing technologies, and is a Fellow of ASM. She has been awarded the ASM Silver Medal, ASM Canada Council Brian Ives Lectureship and G MacDonald Young Award, as well as the Queen Elizabeth II Diamond Jubilee Medal from the Government of Canada for her contributions to materials processing technology. Priti has been a contributing member of ASM for 25 years (starting as a student volunteer in 1993) with service as an executive member of the Montreal Chapter for 17 years and Chapter Chair from 2008-2013. She has also served on several Society Councils and Committees of ASM.

Manufacturing technologies in industry are rapidly evolving into factories of the future with the advent of additive manufacturing technologies. Presently, the status-quo in research for metal additive manufacturing is centered on the fabrication of small parts with optimization performed for weight savings and performance using mainly laser powder-bed 3D printing technology. For the production of large parts for aircraft engines, air frame structures or other large mechanical systems, the manufacturing approach entails migrating to higher deposition rate 3D printing. In this regard, wire-fed electron beam additive manufacturing (EBAM) is gaining momentum as an enabling technology for the fabrication of near net shape metallic components through a rapid layer by layer deposition process.