



February 8th, 2016

ASM – AFS Technical Meeting



The Role of Materials in the Development of Mankind

For more information and to register,

[CLICK HERE](#)

by February 4, 2016

Location:

Sazani's Steak and Pasta House

7327 N Galena Rd.
Peoria, IL 61615

Schedule:

4:30 – 5:30
Social Hour

5:30 – 6:00
Dinner

6:00 – 7:00
Tech. Presentation

Details:

Dinner is subsidized and will be \$15 if you pre-pay (via PayPal invoice) or \$20 at the door for ASM-AFS members (\$5 for students), \$20 pre-payment or \$25 at the door for all other attendees (\$10 for student non-members).

Presentation Abstract:

From ancient times mankind's mastery of the materials world has defined and shaped the course of history. Indeed the ancient "ages" of man are denoted by the Stone Age, Bronze Age, and Iron Age. In this presentation we will work our way up through ancient history and I believe marvel at the technological advances our ancestors were able to achieve by developing new materials and processes to make them. This rate of development escalated enormously as the quantum world was unveiled, along with our ability to understand structure-processing-property relationships at multiple scale levels. To this day nearly every technological advance enjoyed by our generation has been predicated by the development of materials. We will conclude by considering the National Academy's "Grand Challenges of Engineering for the 21st Century", and postulate what new materials will be needed to solve them.

Presenter: Dr. Wayne Huebner is a Professor of Ceramic Engineering at the Missouri University of Science & Technology in Rolla, Missouri. Prior to this position he served as the Chairman of MSE twice (1995-2000; 2007-2015), and Vice Provost for Research from 2001-2007. He is the Director of the Jackling Introduction to Engineering, which brings ~500 high school students each summer to learn about STEM careers. The author of over 100 papers, monographs and book chapters, he has been actively involved in the preparation and characterization of electronic ceramics. Much of his research is focused on the use of dielectrics, ionic & mixed conductors, piezoelectrics, electrostrictive materials for multilayer capacitors, solid oxide fuel cells, gas separation membranes, and phased linear array transducers for intravascular imaging. He has graduated 10 Ph.D. students and 14 M.S. students. Huebner has received S&T's Faculty Excellence Award five times, the Outstanding Teacher Award four times, and was named the Outstanding Faculty Member in Ceramic Engineering five consecutive years.

This meeting is sponsored by

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For more information and to register [Click Here](#). If you have difficulty using the online form, please RSVP to Rachel Dressler (Dressler_Rachel_L@cat.com) or (309) 494-2499

www.asm-afs-peoria.org