

ACS Energy Technology Group
Tuesday, Oct. 9, 2012
Ethylene Production Technology - What Goes Around Comes
Around
Jeffrey J. Siirola, PhD,
Purdue University,
Carnegie Mellon University

Jeff Siirola retired in 2011 as a Technology Fellow at Eastman Chemical Company in Kingsport Tennessee where he had been for more than 39 years. He now holds half time positions as Professor of Engineering Practice at Purdue University and Distinguished Service Professor of Sustainable Energy Systems at Carnegie Mellon University. Siirola received a BS in chemical engineering from the University of Utah in 1967 and a PhD in chemical engineering from the University of Wisconsin-Madison in 1970. His areas of interest include chemical process synthesis, process development and technology assessment, sustainable development and growth, carbon management, and chemical engineering education. Siirola is a member of the National Academy of Engineering and was the 2005 President of the American Institute of Chemical Engineers.

Ethylene is the world's largest volume petrochemical but was first commercialized barely eighty years ago. How this molecule, derived from the least useful of the hydrocarbons, became the foundation of the entire petrochemical industry is another story. This talk will focus instead on the chemistry and engineering of ethylene production, how the principal feedstocks for producing ethylene have changed over time, and how the production processes have changed accordingly. Also to be mentioned are proposed new energy-efficient oxidative chemistries and processes. Finally, the national and regional impact of wet shale gas on the ethylene industry will be discussed. This matter is of particular importance to the economy of the tri-state area.

Spaghetti Warehouse, 26th & Smallman Streets, Strip District, Pittsburgh PA
Free parking behind the restaurant
Social Hour 6:00 pm, Dinner 6:30 pm, Talk 7:30 pm.

For reservations, please contact Elliott Bergman by 1:00 PM on Monday Oct. 8, 2012 at elliott.acstechnology@gmail.com. Our meetings are open to all. Cash or check payable to: Energy Tech Pgh Section ACS.

The cost of the dinner is \$17 including tax and gratuity. Alcoholic drinks cost extra. Please specify your preference from the following menu choices: Spaghetti with meatballs, 15-layer lasagna, Four-cheese manicotti, Fettuccini Alfredo, or Grilled chicken Caesar salad. Also indicate special needs such as vegetarian, gluten-free, etc.