

Chinese-American Chemical Society (CACCS)

華美化學與化工學會

Event at

**2015 AIChE Annual Meeting
Tuesday November 10th, 2015**

Social Hours	6:00 - 6:30 PM	Open to all AIChE meeting Attendees (Same location as banquet. Free of charge)
Banquet and Keynote speech	6:30 - 8:30 PM	J Wong's Thai and Chinese Bistro 163 west 200 south Salt Lake City Utah 84101 Phone: 801-350-0888 Website: http://www.jwongutah.com/ Tickets at AIChE Registration, \$35/person

Keynote Speaker

Dr. Yong Wang

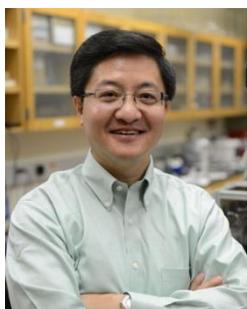
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**Conversion of biomass to fuels/chemicals:
status and perspectives**

Abstract

To alleviate our strong dependence on depleting fossil fuels, more research efforts have been devoted to the conversion and utilization of renewable biomass and its derivatives. Innovations in conversion technologies are needed in order to sustainably convert biomass to fuels/chemicals with carbon and energy efficiencies that can compete with fossil based technologies. Biomass also faces the challenges of complex feedstock logistics, variations in feedstock compositions and cost, barriers to market penetration of the potential products, and newly abundant availability of low-cost unconventional shale gas. In this talk, our recent progress in addressing some of the issues related to the thermochemical conversion of biomass will be presented.

Short bio



Dr. Wang joined PNNL in 1994 and was promoted to Laboratory Fellow (highest scientific rank in national labs) in 2005. He led the Catalysis and Reaction Engineering Team from 2000 to 2007, and has served as the Associate Director of the Institute for Integrated Catalysis (IIC) since 2008. In 2009, Dr. Wang assumed a joint position at Washington State University and PNNL. In this unique position, he continues to be a Laboratory Fellow and associate director of IIC at PNNL and is the Voiland Distinguished Professor in Chemical Engineering at WSU, an endowed, full professorship with tenure.

Dr. Wang is best known for his leadership in the development of novel catalytic materials and reaction engineering to address the issues related to energy and atom efficiency for converting fossil and biomass feedstocks to fuels and chemicals. Dr. Wang has authored >210 peer reviewed publications with H index=52 and more than 10,000 citations (Google Scholar Citations). He has co-edited 2 books and 6 special journal issues, and given more than 120 invited presentations since 2001. He is the inventor on 247 issued patents including 93 issued U.S. patents (>90% of his patents are licensed to industries). His discoveries in microchannel reaction technologies led to the formation of Velocys, trading under the London Stock Exchange (VLS). He was recently elected to the Washington State Academy of Science and is a fellow of 4 major professional societies: AIChE (American Institute of Chemical Engineers), ACS (American Society of Chemistry), RSC (Royal Society of Chemistry), and AAAS (American Association of the Advancement of Science). He has won numerous awards including 2006 Asian American Engineer of the Year Award, Presidential Green Chemistry Award, 3 R&D 100 Awards, Distinguished Alumni Achievement Award from Chemical Engineering at WSU, 2 PNNL Inventor of the Year Awards, Battelle Distinguished Inventor Award, and the first recipient of PNNL Laboratory Director's Award for Exceptional Scientific Achievement Award. He is the past chair of the Energy & Fuel Division of the American Chemical Society, and currently serves as the director to the Catalysis and Reaction Engineering division of AIChE and on the editorial board of 7 catalysis and energy related journals including *ACS Catalysis* and *Catalysis Today*.