

Shabbir Ahmed

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Professional Experience

- Fuel processor design and demonstration for conversion of hydrocarbon fuels for potential use with fuel cell systems in automotive and distributed power applications
- Catalyst development for reforming of alcohols and hydrocarbon fuels
- Technology transfer of fuel-reforming and related technical expertise to industry
- Seminal study of state-of-the-art technology that established the requirements and technology development needs for fuel processing in transportation fuel cell systems
- Performance model to determine temperature, current density, and gas composition distributions in monolithic solid oxide fuel cells
- Mathematical model of pyrolysis and combustion of cellulose and other organic matter in municipal solid waste incinerator

Professional Society Activities

- Helped organize sessions and symposia for American Institute of Chemical Engineers, American Chemical Society, SAE, IECEC

Awards

- Federal Laboratory Consortium Award for Technology Transfer 2002
- R&D 100 Award 2001
- PNGV Medal 1998
- Director's Award 1997
- Pacesetter Award 1996

Publications

- Nine patents
- More than 80 technical papers and presentations

Education

- PhD, Chemical Engineering, University of Nebraska
- MS, Chemical Engineering, Bangladesh University of Engineering and Technology
- BS, Chemical Engineering, Bangladesh University of Engineering and Technology