

## **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
  - Society of Automotive Engineers
  - International Energy Conversion Engineering Conference and Exhibit

### **Awards**

- Federal Laboratory Consortium Award for Technology Transfer, 2002
- R&D 100 Award, 2001
- Partnership for a New Generation of Vehicles Medal, 1998
- Director's Award, 1997
- Argonne National Laboratory Pacesetter Award, 1996

### **Patents and 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