



Name: PRADOSH RAY

Current Position: Professor and Head, Mechanical Engineering  
Department, Tuskegee University

Education: Ph. D., Nuclear Engineering  
Pennsylvania State University, 1975

M.S., Nuclear Engineering  
University of London, England, 1968

B.S., Mechanical Engineering  
Indian Institute of Technology, India, 1964

Academic experience:

Tuskegee University, Assistant Professor, January, 1976 to January 1980  
Tuskegee University, Associate Professor, February, 1980 to March 1983  
Tuskegee University, Professor, April, 1983 to Present

Industrial experience:

1. Engineer, Matthew Moody, Ltd., Montreal, Canada,  
Design of Conveyors, 1968-69.
2. Engineer, P.C. Chanda & Company, India, Design of Machines for the  
Manufacturing of Chemicals, 1965-66.
3. Engineer, Braithwaite & Company, India, Design and Production of Cranes, 1964-65.

Professional Engineer:

State of Alabama

### Member:

American Society of Engineering Education (ASEE)  
American Society of Mechanical Engineers (ASME)

### Research Interests:

Low-energy ion-solid interactions, electric rocket propulsion, space nuclear power, course, curriculum, and laboratory development, assessment methods.

### Research Experience:

Have over 35 years of experience in funded research from various agencies. Have extensive experience in course, curriculum and laboratory development with funding support from NSF, DOE, Army Research Office, and many industrial partners.

### Publications:

Have over 40 presentations at conferences and publications in refereed journals. Some recent publications are given below. Co-author of (recent publications):

1. “Conceptual Design of an Emission Control Subsystem” Presented at the 2010 PACE Global Forum, Seoul, South Korea, July, (2010).
2. “Deconstructing Engineering Education Programmes: the DEEP Project to Reform the Mechanical Engineering Curriculum”, European J. Engg. Education, p. 269-283, June, (2011).
3. “Design and Analysis of Frame and Propulsion System of an Affordable Sustainable Urban Transport (SUT) Vehicle”, 2012 PACE Global Forum, Shanghai, China, July, (2012).
4. “Student Team Formation, Management, and Collaboration in PACE Global SUT Project”, ASEE Annual Conference and Exposition, Atlanta, GA, June, (2013).
5. “Design of a Portable Assisted Mobility Device-A Sustainable Urban Transport”, IEEE International Conference on Connected Vehicles, Las Vegas, NV, December, (2013).

### Radiation Safety Experience:

Serving as the Radiation Safety Officer at Tuskegee University since 1999.