

Jay P. Gore

1986, Ph.D., Penn State

1982, M.S., Penn State

1978, B.E., University of Poona

Dr. Jay P. Gore is the interim Director of the Energy Center in Discovery Park and the Associate Dean of Engineering for Research and Entrepreneurship in the College of Engineering. He is also the Vincent P. Reilly Professor in Mechanical Engineering. He served as a Research Fellow in Aerospace Engineering at the University of Michigan and as an Assistant Professor of Mechanical Engineering at the University of Maryland prior to joining Purdue as an Associate Professor. Dr. Gore received early promotions to the rank of Professor of Mechanical Engineering and to the Chair Professorship. Jay is a past Chairman of the Central States Section of the International Combustion Institute and the ASME K11 Committee on Heat Transfer in Fire and Combustion. He has served as an Associate Editor of the ASME Journal of Heat Transfer. He was the U.S. Editor of the 28th International Combustion Symposium. Dr. Gore currently serves as an Associate Editor of the AIAA Journal. He has received the Best Paper in Heat Transfer Literature Award from ASME and a Presidential Young Investigator Award. He has also received Faculty Fellowships from the Japanese Ministry of Education and the U. S. Department of Energy.

Jay's research is in the area of combustion and radiation heat transfer with applications to pollutant reduction, efficiency enhancements, fire safety, and improved fundamental understanding. He has received over \$10M in research funding and is currently serving as the PI for grants over \$1M in gas turbine combustion and radiation heat transfer applications. He is applying infrared radiation sensing knowledge to a wide range of problems including Bio Heat Transfer, Food Science, and Optical Biopsy in collaboration with a large group of multidisciplinary scientists and physicians. He has authored or coauthored over 100 archival papers, 4 book chapters, and 175 conference papers. Jay has developed/revised 2 courses (Combustion and Advanced Combustion) at Purdue University and three courses in heat transfer and thermodynamics at the University of Maryland.

Areas of Interest:

- Combustion
- Turbulent reacting flows
- Combustion and heat transfer in material processing
- Pollutant reduction