



# University of Pittsburgh

*Department of Industrial Engineering*

1048 Benedum Hall  
Pittsburgh, PA 15261  
412-624-9830  
Fax: 412-624-9831

## **Simulation and Industrial Engineering: A Century of Joint Progress**

**James R. Wilson**

Edward P. Fitts Department of Industrial and Systems Engineering  
North Carolina State University  
Raleigh, NC 27695-7906, U.S.A.

### **ABSTRACT**

Beginning with the discovery of Student's  $t$ -distribution in connection with some of the earliest efforts at industrial quality control, many of the significant advances in the theory and practice of simulation over the past one hundred years have been driven by problems central to industrial engineering and the systems analysis techniques developed to solve them. Conversely, many advances in industrial engineering have been driven by progress in simulation, especially in the past fifty years. In this presentation, we highlight some of these advances and how industrial engineering and simulation have coevolved. This presentation is based on joint work with David Goldsman (Georgia Tech) and Richard E. Nance (Virginia Tech).