

## LAWRENCE E. WHITMAN

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### Professional Preparation

- Oklahoma State University. Mechanical Design Engineering Technology BS 1984
- Oklahoma State University. Industrial Engineering and Management. MS 1986
- The Univ. of Texas at Arlington. Industrial and Manufacturing Systems Engineering. PhD 1999

### Appointments

04/12- Present **Associate Dean for Undergraduate Education** - College of Engineering, Wichita State University

08/11- Present **Professor** Industrial and Manufacturing Engineering Department, Wichita State University

09/06-04/12 **Director of Engineering Education (half time position)** - College of Engineering, Wichita State University

08/04 – 07/11 **Associate Professor** - Industrial and Manufacturing Engineering Department, Wichita State University

01/99 – 09/04 **Assistant Professor** - Industrial and Manufacturing Engineering Department, Wichita State University

08/96-12/98 **Research Engineer Scientist Associate IV** - Automation & Robotics Research Institute (ARRI) Enterprise Engineering Program

09/88-08/96 **Engineering Specialist** - Lockheed Martin Tactical Aircraft Systems (LMTAS), CAD/CAM Engineering Group

06/86-09/88 **Manufacturing Technology Engineer** - General Dynamics/Fort Worth Division, Manufacturing Systems Research Group

### Publications

1. Whitman, L., Jorgensen, M. and B. Chaparro (2010) "Virtual factory models: Do they help students learn?," *Computers in Education Journal*, 20(1), pp. 106-112.
2. Whitman, L., Twomey, J., Chaparro, B. and V. Hinckle. (2009). "Green issues in a factory: student perceptions," *Proceedings of the American Society for Engineering Education Conference*, Austin, TX CD June 14-17, 2009.
3. Whitman, L., Twomey, J. and Bawaneh (2009). "An Educational Tool for Introducing Concepts of Environmental Impacts in Production Systems," *Proceedings of the Industrial Engineering Research Conference*, Miami, FL, May 30-June 3, 2009.
4. Whitman, L., Cheraghi, H. and J. Twomey (2008). "Production Systems Simulator: A Learning Tool," *Proceedings of the Industrial Engineering Research Conference*, Vancouver, CAN, May 18-20, 2008.
5. Whitman, L. and H. Panetto (2006) "The missing link: Culture and language barriers to interoperability," *Annual Reviews in Control*, 30, pp. 233-241.
6. Whitman, L.E., Malzahn, D. E., Chaparro, B., Russell, M., Langrall, R., Mohler, E. (2005) "A comparison of group processes, performance, and satisfaction in a face-to-face versus computer-mediated engineering student design teams," *Journal of Engineering Education*, 94(3), pp. 327-333.
7. Whitman, L. E., Steck, J., Koert, D. and L. Paarmann (2007). "A class for undergraduate technical literacy using LEGO Mindstorms," *Proceedings of the American Society for Engineering Education Conference Honolulu, HI CD June 22-23, 2007.*

8. Whitman, L.E., Malzahn, D., Madhavan, V., Weheba, G., and Krishnan, K., (2004). "Virtual reality case study throughout the curriculum to address competency gaps," International Journal of Engineering Education, 20(5), pp. 690-702.
9. Whitman, L., Madhavan, V., Malzahn, D., & Twomey, J. (2002). "Teaching process design using virtual reality." Proceedings of the American Society of Engineering Education, June 17-18, 2002, Montreal, Canada.
10. Whitman, L., Underdown, R., and Deese, M. (2001). "A physical simulation for the understanding of lean concepts." Proceedings of the Industrial Engineering Solutions Conference, May 21-23, Dallas, TX.

## **Collaborators & Other Affiliations**

### **Collaborators and Co-Editors**

Dr. Kara Peters, North Carolina State University  
Dr. Barbara Chaparro, Wichita State University  
Dr. Donald Liles, The University of Texas at Arlington  
Dr. Don Malzahn, Wichita State University  
Dr. Laura M. Meade, The University of Texas at Dallas  
Dr. Arturo Molina, Monterey Technical University, Mexico.  
Dr. Herve Panetto, University of Nancy, France  
Dr. Adrien Presley, Truman State University  
Dr. K. Jamie Rogers, The University of Texas at Arlington  
Dr. Dwight Burford, Wichita State University  
Dr. James Steck, Wichita State University  
Dr. Janet K. Twomey, Wichita State University  
Dr. John Watkins, Wichita State University

### **Graduate Advisors and Postdoctoral Sponsors**

Dr. John Nazemetz, Oklahoma State University; Dr. Brian Huff, The University of Texas at Arlington;  
Dr. Jamie Rogers, The University of Texas at Arlington

### **Thesis Advisor and Postgraduate-Scholar Sponsor**

Graduate Students: 48

Postdoctoral Scholars: 1