

ICL-QUESTIONNAIRE

NAME: Yinlun Huang
PRESENT POSITION US:
Professor Wayne State University, Detroit, Michigan

GRANT PERIOD: Feb. 1, 2009, 4months
BORN: June 2, 1950
LANGUAGES: English

GERMAN HOST INSTITUTION

Berlin University of Technology

ACADEMIC DISCIPLINE

Chair of Process Dynamics and Operation, Department of Chemical Engineering

AREAS OF RESEARCH

Sustainable chemical engineering, multiscale complex systems engineering, integrated process and product design, control, and optimization

POSSIBLE LECTURE TOPICS

Sustainable chemical engineering, introduction to multiscale systems modeling and simulation, integrated product and process engineering

ACADEMIC TRAINING AND DEGREES

Ph.D. (Chemical Engineering); Kansas State University, USA, 1992.
M.S. (Chemical Engineering); Kansas State University, USA, 1988.
B.S. (Chemical Engineering); Zhejiang University, China, 1982.
Postdoctoral Fellow, University of Texas at Austin, USA, 1992 – 1993.

PREVIOUS POSITIONS

Associate Professor, Dept. of Chem. Eng. & Mat. Sci., Wayne State University, 1998 – 2001.
Assistant Professor, Dept. of Chem. Eng. & Mat. Sci., Wayne State University, 1993 – 1997.

PUBLICATIONS (selected)

Piluso, C., Y. L. Huang, and H. H. Lou, "Ecological Input-Output Analysis-Based Sustainability Analysis of Industrial Systems," *Ind. & Eng. Chem. Research*, 47(6), 1955-1966, 2008.
Patel, J., K. Uygun, and Y. L. Huang, "A Path-Constraint Conscious Method for Integration of Process Design and Control," *Computers and Chemical Engineering*, 32(7), 1373-1384, 2008.
Li, J., J. Xiao, Y. L. Huang, and H. H. Lou, "Integrated Process and Product Analysis: A Multiscale Approach to Automotive Paint Spray," *AIChE J.*, 53(11), 2841-2857, 2007.
Xiao, J., Y. L. Huang, and H. H. Lou, "A Probability Distribution Estimation Based Method for Dynamic Optimization," *AIChE J.*, 53(7), 1805-1816, 2007.
Xiao, J., Y. L. Huang, Y. Qian, and H. H. Lou, "Integrated Product and Process Control of Single-Input-Single-Output Systems," *AIChE J.*, 53(4), 891-901, 2007.
Xiao, J., J. Li, H. H. Lou, Q. Xu, and Y. L. Huang, "Ant-Colony-System-Based Dynamic Optimization for Curing of Polymeric Coating," *AIChE J.*, 52(4), 1410-1422, 2006.
Li, J. and Y. L. Huang, "Bayesian-based On-line Applicability Evaluation of Neural Network Models in Modeling Automotive Paint Spray Operations," *Computers and Chemical Engineering*, 30(9), 1392-1399, 2006.
Uygun, M. K., Y. L. Huang, and H. H. Lou, "Fast Process Security Assessment Theory," *AIChE J.*, 50(9), 2187-2202, 2004.
