PAUL R. McCRIGHT, PhD
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EDUCATION: PhD in IE, Stanford University, 1987
MSE in IE, Arizona State University, 1973
BSIE (Industrial Engineering), Texas Tech University, 1971

SUMMARY OF TEACHING EXPERIENCE:

- 21 Years full-time faculty experience in Industrial and Manufacturing Systems Engineering at Kansas State University (5.5 years) and in Industrial Engineering and Engineering Management at the University of South Florida (15.5 years) plus 5 years as online adjunct for the U. of South Florida.
- Adjunct faculty, Texas A&M University – Commerce, Spring 2023.
- Served as faculty advisor or graduate committee member for about 25 MS and PhD candidates.
- Served as Departmental Undergraduate Advisor and Intake Advisor for 30-60 students per year.
- Extensive experience developing and delivering both undergraduate and graduate courses in an online format, including the following:
    - Engineering Economics
    - Globalization and Technology
    - Engineering Management Principles
    - Engineering Management Problems
    - Work Design and Productivity
    - Management of Technological Change
    - EM Policy and Strategy (MSEM Capstone)
    - Sustainability Engineering
    - Occupational Safety Engineering
    - Construction Safety Engineering

COURSES TAUGHT:

- Taught the following undergraduate courses at Kansas State University (average 35 students):
    - Intro to Industrial Management – classroom, 11 semesters
    - Advanced Industrial Management – classroom, 5 semesters
    - Intro to Industrial Management –remote at Kansas City Kansas Community College, classroom and by video, 3 semesters, average 6 students

- Taught the following undergraduate courses at the University of South Florida (average 35-60 students):
    - Human Factors Engineering – classroom, 11 semesters
    - Human Factors Engineering – classroom and online, 4 semesters
    - Engineering Economics – classroom, about 36 semesters
    - Engineering Economics – online, about 30 semesters online
    - Globalization and Technology – General Ed course – Developed -- classroom, 2 semesters
    - Globalization and Technology – General Ed course, online, 16 semesters
- Taught the following undergraduate course in Industrial Engineering at Texas A&M Commerce:
    - Service Systems Analysis (9 students)
- Taught the following Industrial Engineering and Engineering Management graduate courses at Kansas State University (average 12-20 students):
    - Engineering Administration – classroom, 5 semesters
    - Research and Development Engineering – classroom, 4 semesters
    - Project Management – classroom, 4 semesters
    - Occupational Safety Engineering – Developed -- classroom, 4 semesters
    - Advanced Ergonomics – classroom, 4 semesters
- Taught the following Industrial Engineering and Engineering Management graduate courses at the University of South Florida (average 40-100 students):
    - Engineering Management Principles – classroom and online, 8 semesters
    - Engineering Management Problems – classroom and online, 8 semesters
    - Work Design and Productivity – classroom and online, 8 semesters
    - Management of Technological Change – classroom and online, 6 semesters
    - EM Policy & Strategy (MSEM Capstone) – classroom and online, 5 semesters
    - Sustainability Engineering – Co-developed – classroom and online, 1 semester
    - Occupational Safety Engineering – Developed -- classroom and online, 15 semesters
    - Construction Safety Engineering – Developed -- classroom and online, 8 semesters
    - Creativity Engineering – Co-Developed -- classroom, 2 semesters

PROFESSIONAL EXPERIENCE:

Visiting Faculty Member, Engineering and Technology, Texas A&M – Commerce, Aug. 28, 2023 – Present

- Instructor for ENGR 411 Engineering Management, ID 409 Work Design, TMGT 456 Value Chain Control and Management, and TMGT 511 Emerging Technologies.

Consulting for Analytics Biotech Systems, March 2019 – July 2023

- Serve as technology and business consultant for company established to pursue market development and distribution for rapid microbial testing technology.
- Served as primary author of initial company business plan including market analysis and financial proforma.
- Continued as primary technology officer in relationships with potential clients who were previously known and those who are newly engaged.
- Traveled to business meetings with potential clients in the U.S.
- Made presentations regarding the science behind the technology, its commercialization, advantages and disadvantages of the technology relative to competitors.
- Served as interim Sales Manager and Hiring Manager.

Executive Vice President, Project Management, OEX, Inc., Jan. 2016 – March 2019

- Technology Officer for corporate projects.
- Maintained in-depth knowledge of company and industry technologies for application in marketing and system integration activities.
- Managed projects related to technology acquisition, production, and use.
- Provided input to management on potential applications of technology, suggested marketing strategies, and prepared documents to support various company directions. Company technologies are a commercial desalinization water treatment system and a microbial testing platform (marketed under Biotrack Diagnostics).
- Presented details of technologies to prospective clients/customers, prospective investors, prospective members of the Board, and other interested parties.
- Made conference presentations and staffed company booth at conference-related expos.
- Company closed due to termination of funding, March 2019.

Faculty Member, Industrial and Management Systems Engineering Dept., University of South Florida, Jan. 1993 – May 2008
Adjunct Faculty Member, Industrial and Management Systems Engineering Dept., University of South Florida, June 2008 – May 2013

- Instructor of Engineering Management and Industrial Engineering.
- Teaching responsibilities included graduate courses in engineering management principles, problems, work design and productivity, management of technological change, technology and finance, and occupational safety engineering as well as undergraduate courses in ergonomics, engineering economy, and foundations of engineering.
- Also taught construction safety through joint arrangement with College of Public Health. OSHA-certified instructor for both Industrial Safety and Occupational Safety.
- Developed and taught a University sanctioned General Education Studies course titled Globalization and Technology.
- Research interests included environmental sustainability issues and white-collar performance parameters.

- Served as the faculty sponsor for the annual College of Engineering EXPO, 8/97 – 5/07.
- Occasionally served as expert witness in cases involving human factors and safety issues.
- Provided occasional consulting services to industrial, governmental, and non-profit organizations.
- Provided seminars in ergonomics and safety to area industry.
- Extensive experience in providing both graduate and undergraduate courses in classrooms, online only, and blended sections.
- Served as faculty advisor and intake officer for undergraduates from 1998 to 2008. Served on about 6 master's thesis committees and about 12 PhD dissertation committees.
- Served as faculty advisor for Alpha Pi Mu, the Industrial Engineering Honor Society.
- Served as adjunct faculty for online courses in Globalization and Technology, Engineering Economics, Occupational Safety Engineering, and Construction Safety Engineering, May 2008-Aug. 2013.
- Team Member for College of Public Health's "Ford-UAW Repetitive Strain Injury Assessment" 1995-1996.

Faculty Member, Industrial and Manufacturing Systems Engineering Dept., Kansas State University, Aug. 1987-Dec. 1992

- Assistant Professor of Industrial Engineering and Engineering Management.
- Responsible for graduate courses in engineering administration, safety engineering, ergonomics, and project management and under-graduate courses in industrial management.
- Responsible for the direction of Engineering Management Program (MSIE).
- Funded research included "Kansas Solid Waste Disposal Status Review," Principal Investigator, Kansas Dept. of Health and Environment (KDHE), 7/91 - 6/92 ($72,335) and "Kansas Solid Waste Disposal Analysis and Final Report," Investigator, KDHE, 7/92 - 6/93 ($33,566).
- Participant in KSU Foodservice and Hospitality Industries Environmental Issues Program, 2/91 - 12/92.
- Received College of Engineering award for Outstanding Undergraduate Advisor, 1990.

Other Experience:

Executive Vice President and Consultant, **Solutions for Management**

Company provided facility arrangement support to Hewlett-Packard's Scientific Instrument Division, Sunnyvale, California – 1985 – 1987.

Teaching and Research Assistant, IE & EM Dept. Stanford University

Primary responsibilities for Teaching Assistance for Engineering Management Courses. Provided research assistance for two major projects: (1.) "An Investigation into the Management Communication Patterns at Atari" which was performed about 2 years after the company closed; I used structured interviewing techniques to interview about

a dozen of the top Atari executives. (2.) "The Effects of Shift Work on Worker Motivation" for which I traveled to several large manufacturing plants to administer questionnaires to line workers, collected, and analyzed the data.

Senior Facilities Planning Engineer, Salt River Project

Energy Management Specialist, **U.S. Dept. of Energy**, **Nevada Operations Office**

Contract Administrator, U.S. Dept. of Energy, Nevada Operations Office

Weapons Development Engineer, **U.S. Dept. of Energy, Albuquerque Operations Office**

Fire Protection and Safety Specialist, **U.S. Dept. of Energy, Rocky Flats Area Office**

Research Assistant, Industrial Engineering Department, Arizona State University

BOOK AUTHORED

Engineering Economics. Lead author for a course-related workbook coauthored by JoAnne Larsen and Robert J. Wimmert, 1994. Book designed and used to facilitate online learning by providing a guideline for note-taking and studying; used for almost 20 years.

MOST RELEVANT ARTICLES AND PAPERS

"Rapid Monitoring for Pathogens in Potable Water." Presented at the International Symposium on Biological Treatment of the American Water Works Association, Austin, TX, 2018

"Integrating Sustainable Development into ISE Curricula." With Gregory Weisenborn and Curtis Bush. Proceedings of the Industrial and Systems Engineering Annual Conference and Expo, 2018.

"Meeting the UN Goal of Sustainability of Water Supplies." Proceedings of the Industrial Engineering Research Conference, 2017.

"Reuse: Ultimate Water Supply Sustainability." Proceedings of the Industrial Engineering Research Conference, 2017.

"Single-Step Processing for Direct Potable Reuse." With Gerard Schouten and Antoine Engelaar. Proceedings of the Sustainable Water Management Conference, 2017.

"Revolutionary Microbial Testing for Pathogens in Ballast Water." With Gijsbert Jansen and Gerard Schouten. Proceedings of the 6th GEF-UNDP-IMO GloBallast R&D Forum and Exhibition on Ballast Water Management, 2016.

"A New Model for Organizational Sustainability." With Gary G. Bergmiller. Proceedings of the Industrial Engineering Research Conference, 2011.

"Achieving Total Sustainability by Cleaning Up the Dirty Dozen." With Gary G. Bergmiller. Proceedings of the Industrial Engineering Research Conference, 2011.

"Parallel Models for Lean and Green Organizations." With Gary G. Bergmiller. Proceedings of the Industrial Engineering Research Conference, 2009.

"Lean Manufacturers' Transcendence to Green Manufacturing." With Gary G. Bergmiller. Proceedings of the Industrial Engineering Research Conference, 2009.

"Are Lean and Green Programs Synergistic?" With Gary G. Bergmiller. Proceedings of the Industrial Engineering Research Conference, 2009.

"Techniques for Enhancing Sustainability of Industrial Operations." With Gary G. Bergmiller. Proceedings of the Industrial Engineering Research Conference, 2009.

"A Zero Waste Management Strategy to Reduce the Cost of Alternative Energy." With Gary G. Bergmiller. Proceedings of the IEEE Green Manufacturing Conference, 2009.

"Inventory Allocation Logic for Scarce Finished Goods." With Gregory Weisenborn. Proceedings of the Industrial Engineering Research Conference, 1999.

"Literacy and Its Effects on Job Design." With Anita L. Callahan. Industrial Management, March/April, 1995.

"Teaching Engineers to Consider Environmental Issues in Design." With Gary Bergmiller. American Society for Engineering Education Annual Conference Proceedings, 1995.

"TQEM: The TQM Analogy." Florida Environmental Expo, '95 Official Proceedings, 1995.

UNIVERSITY COMMITTEES AND SERVICE

At the University of South Florida

- Distance Learning Development Team, 5 years
- Engineering EXPO Faculty Advisor, 8 years
- Alpha Pi Mu Faculty Advisor, 2 years
- Engineering Transitions Society Faculty Advisor, 10 years
- Human Factors and Ergonomics Society Faculty Advisor, 3 years
- Engineering Economy Review for the Fundamentals of Engineering Exam, 4 years
- College of Engineering Scholarship Selection Committee, 9 years

At Kansas State University

- Total Quality Management Implementation Team, 1 year
- Foodservice and Hospitality Industries Environmental Issues Program, 2 years

- Board of Directors, KSU Center for Leadership, 2 years

COMMUNITY SERVICES

- Project Lead the Way Trainer, Principles of Engineering, 4 years
- Raymond James Financial Services, White Collar Productivity Improvements
- Tampa VA Hospital Safe Patient Room of the Future Design Team
- Ford-UAW Repetitive Strain Injury Assessment
- Tampa VA Hospital Back Injury Task Force
- First Christian Church, Brandon, FL Layout Redesign
- Facilitator, Tampa VA Hospital Continuous Quality Improvement Retreat.

MEMBERSHIPS

- American Society for Engineering Education
- American Society for Engineering Management
- Human Factors and Ergonomics Society
- Institute of Industrial Engineers (Society for Engineering Management, Sustainable Development Society)
- Phi Kappa Phi (General Honor Society)
- Sigma Xi (Research Society)
- Alpha Pi Mu (Industrial Engineering Honor Society)
- Tau Beta Pi (Engineering Honor Society)
- Kappa Mu Epsilon (Math Honor Society)

AWARDS

- Outstanding Young Men in America
- Outstanding Teacher Award, IE Department, Kansas State University, 3 times
- Advisor of the Year, College of Engineering, Kansas State University

PROFESSIONAL REFERENCES

- **Dr. Jose Zayas-Castro**
  National Science Foundation
  josezaya@usf.edu
- **Dr. Bradley Kramer**
  Retired Chair, Dept. of Industrial and Manufacturing Systems Engineering
  Kansas State University
  bradleyk@ksu.edu

- **Dr. Gregory Weisenborn**
  Tenured Associate Professor of Management – Operations Management
  Fort Hayes State University, Robbins College of Business
  ghweisenborn@fhsu.edu ; 813-748-7731 (cell)
- **Dr. Gary Bergmiller**
  Sustainability Consultant
  gbergmiller@yahoo.com