

Executive CV

Home Address [REDACTED]  
[REDACTED]  
[REDACTED]

Work Address: Department of Engineering Management and Systems Engineering  
Missouri University of Science and Technology  
[REDACTED]  
[REDACTED]  
[REDACTED]

SELECTED LEADERSHIP ACCOMPLISHMENTS (all appointments)

Accomplishment in Academic Leadership

- Led multiple strategic planning efforts at both college and university levels at two research universities
- Led reestablishment of academic colleges including the hiring and mentoring of Founding Deans at Missouri S&T
- Assembled highly capable and effective leadership teams in both College and Universitywide Divisions at two different universities
  - o Several former direct reports now serve in higher capacities including Chairs, Deans, Provosts and Vice Presidents (and recently one interim chancellor)
- Led restructuring of shared governance to increase faculty input into decision making (MSU Engr)
- Led initiative to create cross-disciplinary design experience for all engineering undergraduate majors (at MSU) † one of the most significant curricular reforms in many years
- Led Collegewide accreditation activities to comply with (then) new EC2000 requirements for ABET in 1998 † significant change to previous standards (MSU)
- Responsibility for 2018 self-study and HLC university accreditation visit and report resulting in reaffirmation and ‡ P H H W V D Declaration of 2019 (S&T) V .
- Successfully promoted enrollment growth in non-STEM areas, particularly in humanities and social sciences (S&T)
- Selected to represent S&T in UM System-wide analysis of administrative services and support staff, as well as eLearning Task Force

Accomplishment in Faculty Development

- Led efforts to recruit exceptionally qualified and diverse faculty at both Montana State and Missouri S&T † in both institutions, strategic plans drove target area recruitment
  - o Overseen over 200 tenure/tenure-track faculty hires cumulatively as dean and provost † created nationally competitive startup packages for each hire (MSU and S&T)
  - o Outcomes include faculty earning numerous NSF Career Awards (6 in last 8 years as Dean at MSU, plus 5 at S&T) † For perspective, only one other Career award earned by MSU engineering faculty in 15 years prior to my deanship
  - o Other outcomes include two recent National Endowment for Humanities awards at S&T
- Created fund for faculty to participate in short-term developmental leave activities (MSU and S&T)
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Minority Program (MSU)† program received 2012 Innovation Award from the College Board Advocacy & Policy Center

- o In addition The MSU COE achieved 6 straight record increases of women and transfer students during my deanship
- Over 40% increase in women ranked faculty positions at Missouri S&T since 2013
- Record enrollment of female students in Fall, 2017, including STEM fields (S&T)
  - o 3% increase over previous record
- Missouri S&T is a n

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Accomplishment in Philanthropy

- Created concept and drafted first proposal and cultivated donor for eventual gift of \$50 Million  
IRU W K H † \$ V E M R U Q V R Q & R O O H J H R I ( Q  
W M B ally, completed in 2014 with the new 110KSF  
facility opened in late 2018
  - o Also recently renamed as W K H † 1 R U P \$ V E M R U Q V R Q & R O O H J H R I ( Q
- Facilitated other increases in MSU engineering endowments and current year donations over \$30  
Million raised during my deanship in addition to the Asbjomson gift
- Established W K H 0 6 8 & R O O H J H R I ( Q first six named endowments
  - o The Boeing Professorship, the Joel Long Professorship, the Lysle Wood Professorship, the  
Benjamin Fellowship, the RightNow Technologies Distinguished Professorship and the  
Gilhousen Chair of Telecommunications
- Mentor new deans in fundraising vision and strategy with record returns for colleges (S&T)
- Facilitate and mend previously damaged donor relations (S&T)

Accomplishment in Program Development

- Led campus and Board approval of reorganization and addition of several new doctoral programs  
at Montana State
  - o Outcome resulted in substantial increases in doctoral enrollments † from approximately 8 to  
over 60 in the

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at Missouri S&T during 2014-17

- Identified approximately \$7 Million in unwarranted carryover funds to be used for faculty support and facility upgrades this was a significant source for new classroom building project (projected completion in 2020)

### System, State and Federal Relations

- Served as senior Provost in UM System (2017-19), assisted in leading system wide initiatives.
  - o Facilitated face-to-face academic officers meeting within UM System campuses (S&T)
- Helped secure direct line support Missouri Legislature for new programmatic initiatives in 2017
- Represented MU to Board of Regents and Legislature regarding issues of engineering, computer science, technology and related economic development issues
- Facilitated projects with both state and national universities involving significant new research and instructional initiatives (MSU)
- : R U N H G Z L W K O Personal Delegation to SEC Over \$25 Million in Federal support twelve year period including funds for transportation and energy research, and remote learning

### Other Professional Leadership Experience

- Elected membership





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Rehabilitation Engineering Center-- Wichita, Kansas

1983 to 1985-- Rehabilitation Engineering Technician Served as a rehabilitation engineering technician in the REC, part of the Cerebral Palsy Research Foundation of Kansas Work

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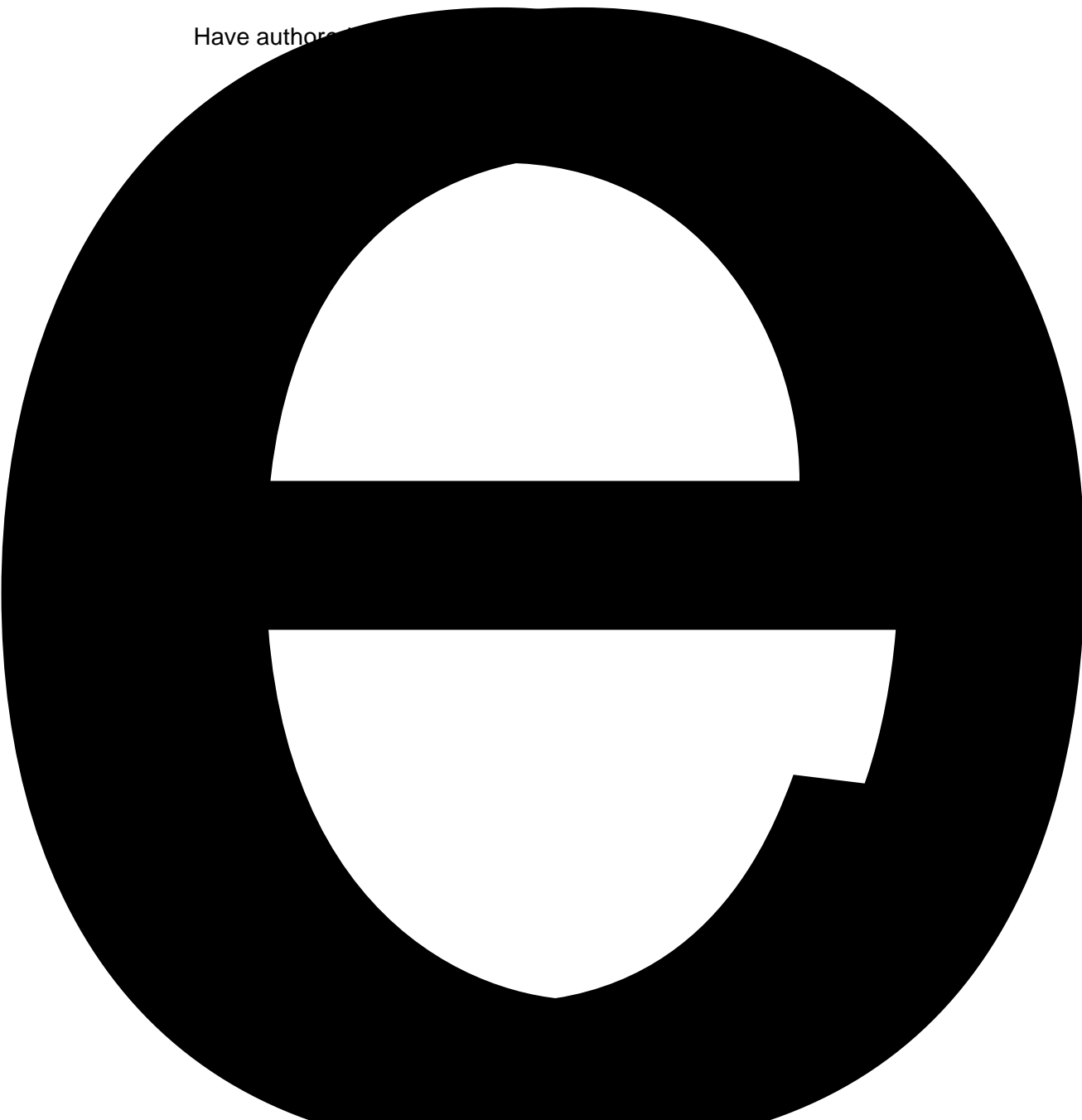
othergraduate committeesapproximately 50total † in engineering as well as in collaborative fields ranging frombiomechanicsto institutional researchpost-secondary educationNotethefirst doctoralstudent listed in Appendix I wasthe first industriaengineering student to receivePhDfrom MSU as the program wasapproved in late 2001.

Grants and Contracts (see AppendixI for complete listing)

Have worked forapproximately 36years in an environment basedat least in part, uponexternal grantsand contracts. Have served as PI or Co-PI on competitively awardedprojectstotaling \$2.6 million with fundingfrom agencies including the NSFtheUS Department of Transportation, as well as private foundations and corporations. Have also assisted faculty in working with a variety of other fundingagencies and I remain personally active in proposaldevelopment Prior toofficially leaving Montana State in 2013was a leadpartnerin securinga significant, multi-institutional FAA grant on unmanned aial systems.Currently serving as a coI on a proposed SF Advance at approximately \$1 million.

Publications (see AppendixII for complete listing)

Have authored



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- Boeing Fellowship Wichita State University, 1988-1990
- Who's Who Among Students in American Universities & Colleges, 1989.

### OTHER PROFESSIONAL ACTIVITIES

#### Professional Service Appointments (see Appendix V for complete listing)

Have served the ergonomics profession as an associate editor for a leading journal in ergonomics (2000-2004). Also served the engineering education community through several capacities in the American Society for Engineering Education (ASEE), including election to the National Board of Directors of the Society (2004-2006). Has served as President of the International Society for Occupational Ergonomics and Safety (ISOES, 2009-2010).

#### Professional Membership and Certification

- Board Certified Professional Ergonomist (BCPE # 466) by nomination and peer review of works recertified in 2010 (5016-11.(2)-11.006 (0)-10.996 (1)-11.006 (6))
- Professional Registry Member of the Institute of Ergonomics & Human Factors (I.E.H.F.) by nomination

### Other Professional Development Activities

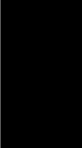
- Executive search

APPENDIX I:  
Chaired Graduate Committees

Doctoral Dissertations

- Stanley, Laura M., "Human haptic and auditory mechanisms in collision avoidance for ground transportation systems," May, 2006
  - o Earned "Student of the Year" award for 2005 by US Dept of Transportation (1 of 6 recognized nationally). Awarded Feno Fellowship in 2005 (one of top 20 U.S graduate students in transportation engineering) as well as Eisenhower Award national finalist.
  - o Currently Associate Professor at Montana State Univ; previously tenured at Clemson Univ
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APPENDIX II:

Selected Grants, Contracts and Related Activities



Refereed Journals and Proceedings

Muthumani, A and Marley, R.J. Development of testing protocol for evaluating steering and braking responses to driver warning systems Applied Ergonomics (submitted).

Gosavi, A and Marley, RJ (2020). Public policy in a pandemic: A hazard control perspective and case study of the BCG vaccine for COVID-19. IEEE Engineering Management Review 48(3), pp. 111-117. Print ISSN: 0360-8581; Online ISSN: 1937-4178; DOI: 10.1109/EMR.2020.3010438.

Gosavi, A and Marley, RJ (2020). Strategic implications and data analysis for the COVID-19 pandemic in the coming season: Public policy-making with a hazard control perspective Proceedings of the 9<sup>th</sup> Annual World Conference of the Society for Industrial and Systems Engineering, A Subramanian, et al (Eds), pp. 74-75, ISBN: 978193849649-6; DOI Pending

Christian, M, Fernandez, Ibarra-Mej. 84 Tf 174598c(:)-11fc8.994 ( )-17.( )-17.002 (e)3 9.8s







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Marley, RJ, Stewart, KJ, and Skelly, WA (1997). Physiological demand of protected climbing in overhead utili

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Research, Texas Tech University, pp63-70.

Marley, RJ, DeBree, TS, and Wehrman, R (1993). The effect of wrist, forearm and elbow posture on maximum grip strength. 2nd Industrial Engineering Research Conference, Norcross, GA: Institute of Industrial Engineers, pp. 525-529.

Marley, RJ, and Wehrman, RR (1992). Grip strength as a function of forearm rotation and elbow posture. Proceedings of the Human Factors Society 36th Annual Meeting, pp. 791-795.

Fernandez JE, Pitetti, KH, Dahalan, D, Kim, C and Marley, RJ (1993). Physical work capacity of South Indians using the Scwinn Air-Dyne. In, Sen PN, Das, S, and Chattopadhyay, H (Eds.) Occupational and Environmental Ergonomics, pp. 232-237.

Wehrman, RR, Ross, TL, and Marley, RJ (1992). The importance of ergonomics in the current engineering process. In Eyada, OK and Ahmad, MM (Eds.) Second International Conference on Flexible Automation and Information Management, FAIM '92, Boca Raton, FL: CRC Press, pp. 201-212.

Marley, RJ (1992). Trends in the use of psychophysics in industrial work design. In Eyada, OK and Ahmad, MM (Eds.), Second International Conference on Flexible Automation and Information Management, FAIM '92, Boca Raton, FL: CRC Press, pp. 221-233.

Kim, CH, Marley, RJ, and Fernandez, JE (1992). Prediction models of grip strength at varying wrist postures. In Kumar, S (Ed.) Advances in Industrial Ergonomics and Safety, London: Taylor & Francis, pp. 787-788.

Marley, RJ and Fernandez, JE (1991). A psychophysical approach to establish maximum acceptable frequency for hand/wrist work. In Karwowski, W and Yates, JW (Eds.) Advances in Industrial Ergonomics and Safety, London: Taylor & Francis, pp. 73-82.

Bonebrake, AR, Fernandez, JE, Marley, RJ, Dahalan, J and Kilmer, KJ (1990). A treatment for carpal tunnel syndrome: Evaluation of objective and subjective measures. Journal of Manipulative and Physiological Therapeutics 13(9), 507-520.

Fernandez, JE, Marley, RJ, and Eyada, OK (1990). ErgoCAD: An ergonomic CAD system. Computes & Industrial Engineering 18(3), 313-318.

Fernandez JE, Marley, RJ, Klein, MG and Learned, V (1990). Kinetic wrist strength of females with carpal tunnel syndrome. Proceedings of the Human Factors Society 34th Annual Meeting, pp. 795-799.

Fernandez JE, Marley, RJ and Young, KR (1990). Results of an ongoing monitoring program for carpal tunnel syndrome. In Das, B (Ed.) Advances in Industrial Ergonomics and Safety, pp. 265-271.

Fernandez, JE and Marley, RJ (1990). Monitoring and screening tests for carpal tunnel syndrome. In Lovey, EJ (Ed.), Proceedings of the Ergonomics Society 1990 Annual Conference, pp. 63-68.

Fernandez, JE, Malzahn, D, Marley, RJ and Bonebrake, AR (1989). A study of several performance measures of workers with carpal tunnel syndrome. Proceedings of the Human Factors Society 33rd Annual Meeting, pp. 728-732.

Chambers, RM, Fernandez, JE and Marley, RJ (1989). Noise exposure of plumbers in new home construction: a case



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APPENDIX IV:



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Mexico, Juárez, Mexico, April, 2009.

‡ 6 X S S R U W L Q J H W D R F S K P C H R O O W R J D Q G H W U D Q V I H U · ( Q W U H S U H Q H X U L D O . Q R  
MT, June 17, 2008.

"History, current status, and potential changes of OSHA ergonomics oversight Balancing science a



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"Increased productivity through ergonomics." MSU-Bozeman Noon Seminar Series for Technical Professionals (interactive video presentation for regional METNET sites) April 11, 1996

"Ergonomic methods and practice for field and line crews in utilities." Western Energy & Community Councils

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APPENDIX V:  
Appointments and ServiceActivities

Board Service

- MSU Innovat

1998-2000.

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