

ROBERT MARLEY, Ph.D., CPE

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 a reaffirmation and declarator in 2019 (S&T)
- 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)

ROBERT MARLEY, Ph.D., CPE

ROBERT MARLEY, Ph.D., CPE

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

ROBERT MARLEY, Ph.D., CPE

Accomplishment in Philanthropy

Created concept drafted first proposal and led cultivation of donor for eventual gift of \$50 Million
ally gifted to MSU in 2014 with new 110KSF

facility opened in late 2018

- o Also recently renamed as

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 first six named and endowed positions

- o The Boeing Professorship, the Joel Long Professorship, the Lysle Wood Professorship, the
Benjamin Fellowship, the RightNow (l)-10 (o)2 41 /T-10 (d23e)-10 (l)-10 (l)-10 (l)-10 (()6 (g)-10 (f)-22 (

ROBERT MARLEY, Ph.D., CPE

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)

Professional delegation to secure 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

ROBERT MARLEY, Ph.D., CPE

ROBERT MARLEY, Ph.

ROBERT MARLEY, Ph.D., CPE

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

ROBERT MARLEY, Ph.D., CPE

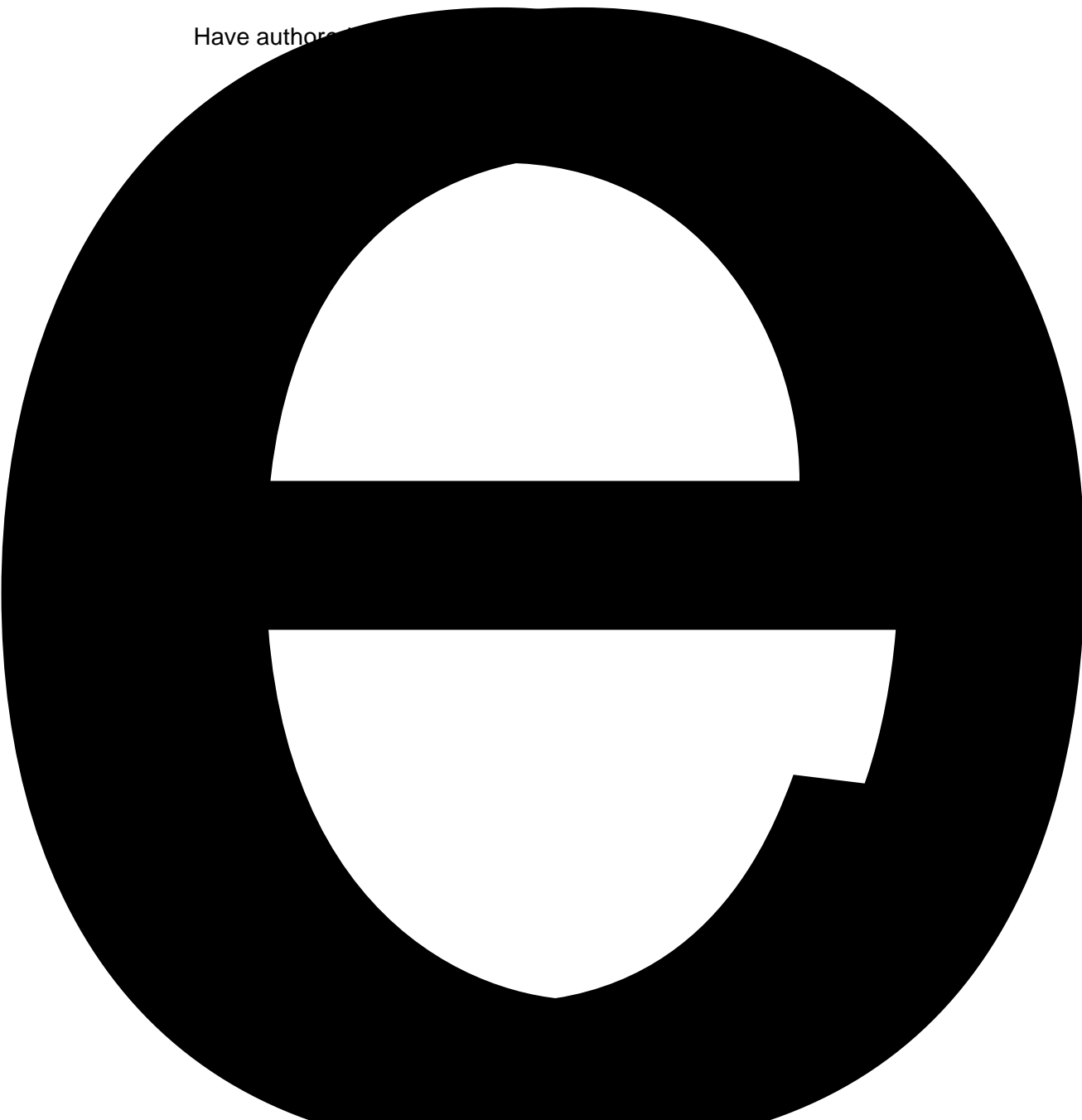
othergraduate committeesapproximately 50total in engineering as well as in collaborative fields ranging frombiomechanicsto institutional researchpostsecondary educationNotethefirst doctoralstudent listed in Appendix I wasthe first industriaengineering student to receivePhDfrom MSU as the program wasapproved 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 PI on a proposed NSF Advance at approximately \$1 million.

Publications (see AppendixII for complete listing)

Have authored



ROBERT MARLEY, Ph.D., CPE

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)) ET Q q 0 0 622 792 re W* n B65(1)-11.G MT4 9.
Professional Registry Member of the Institute of Ergonomics & Human Factors (M.Erg.S.) by nomination and peer review

Other Professional Development Activities

Executive Search

ROBERT MARLEY, Ph.D., CPE

**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 Eno 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

ROBERT MARLEY, Ph.D., CPE

APPENDIX II:

Selected Grants, Contracts and Related Activities

ROBERT MARLEY, Ph.D., CPE

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, R.J.** (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, R.J.** (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 9th 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-Mejia, and **Marley, R.J.** (2016). Using the Revised NIOSH Lifting Equation in the Mexican Workplace: Biomechanical, Physiological, and Psychophysical Differences. Proceedings of the 5th Annual World Conference of the Society for Industrial and Systems Engineering

ROBERT MARLEY, Ph.D., CPE

Ibarra-Mejia, G, Fernandez, JE, Marley, RJ, and Soto-Diaz, C (2012). Ankle dorsiflexion, medialateral stability, and perceived safety in stairs of different slopes. Proceedings of the XXIVth Annual Conference of the International Society for Occupational Ergonomics and Safety, Valencia, Spain. <https://doi.org/10.1080/00140139.2012.712792>

ROBERT MARLEY, Ph.D., CPE

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

ROBERT MARLEY, Ph.D., CPE

Research, Texas Tech University, pp.63-70.

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

ROBERT MARLEY, Ph.D., CPE

APPENDIX IV:

ROBERT MARLEY, Ph.D., CPE

Mexico, Juárez, Mexico, April, 2009.

MT, June 17, 2008.

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

ROBERT MARLEY, Ph.D., CPE

"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

ROBERT MARLEY, Ph.D., CPE

**APPENDIX V:
Appointments and Service Activities**

Board Service

MSU Innovat

ROBERT MARLEY, Ph.D., CPE

1998-2000.