

ROBERT MARLEY, Ph.D., CPE

Abbreviated Resume

Name: Robert J. Marley
Title: Provost and Executive Vice Chancellor
Address: Missouri University of Science and Technology
210 Parker Hall, 300 W. 13th Street, Rolla, MO 65409
Contact: Office: 573-341-4138; e-mail: marleyr@mst.edu

Education

Ph.D. Industrial Engineering, Wichita State University, 1990
Major area: Occupational Ergonomics/Human Factors Engineering
Minor areas: Statistics, Experimental Design, Engineering Psychology

M.S. Engineering Management Science, Wichita State University, 1987

B.G.S. General Studies—Experimental Psychology emphasis, Wichita State University, 1983

Additional Training

ACE Fellowship, Texas A&M University, 2012-2013

Academic and Leadership Appointments (reverse chronology)

Provost and Executive Vice Chancellor for Academic Affairs, Missouri S&T, Rolla, MO, July, 2014, to present.

Vice President for Student Success (interim), Montana State University, Bozeman, MT, 2013 to 2014.

Dean and Director, College of Engineering and Engineering Experiment Station, Montana State University, Bozeman, MT, 2001 to 2013.

Associate Dean, College of Engineering, Montana State University, Bozeman, MT, 1997 - 2001.

Assistant Professor / Associate Professor / Professor, Montana State University, Bozeman, MT, 1990 to 2014.

Key Accomplishments in Leadership

- Created concept and cultivated donor for \$50 Million gift for the “Asbjornson Innovation Center” at Montana State—formally gifted in 2014 resulting in named College and major new facility.
- Secured increases in MSU engineering endowments and current year donations—over \$30 Million raised from private sources during my deanship (in addition to Asbjornson Center), including establishing the MSU College of Engineering’s first six named and endowed positions.
- Secured over \$34 Million in System, State, and Federal funds to support initiatives as Dean or Provost.
- Facilitated a tripling of annual research expenditures during deanship, helping secure Montana State’s elevation from R2 to R1 in Carnegie classification for research in 2006.
- Oversaw faculty growth, diversity and achievement at both Montana State and Missouri S&T.
 - Five-fold increase in female faculty in engineering at MSU during my deanship
 - 40% increase in under-represented minority faculty at Missouri S&T since 2014
 - Numerous NSF Career Awards, NEH Awards, AAAS Awards, and other faculty achievement.

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- Oversaw strategic enrollment and diversity growth at both Montana State and Missouri S&T.
 - Top 5 universities for graduating Native American students in engineering and CS (MSU).
 - Record numbers of female and African American students at S&T in 2017.
 - Facilitated student success in award of Rhodes, Goldwater, Marshall scholarships, and a Gates-Cambridge Fellowship while Dean at MSU
 - Facilitated significant increase in international enrollments in engineering (MSU)
 - Missouri S&T fastest growing public university in State during last 5 years.
- Led multiple strategic planning efforts at both college and university-wide levels at two research universities.
- Oversaw implementation of new Title IX, VAWA and related policies while Vice President (MSU).
- Completed organizational redesign following re-introduction of dean level administration (S&T).

Selected Scholarly Works (most impactful)

Books and Chapters

1. Fernandez, JE and **Marley, RJ** (2013). Applied Occupational Ergonomics: A Textbook, 4th Edition. Fairfax, VA: Society for Industrial and Systems Engineering Press, ISBN: 9781938496486.
2. Fernandez, JE **Marley, RJ**, Noriega, S, and Ibarra, G (2008). Ergonomia Ocupacional: Diseno y Administracion del Trabajo. Cincinnati, OH, International Journal of Industrial Engineering Press, ISBN: 97809654506-5-2.
3. Fernandez, JE and **Marley, RJ** (1997). Lifting physical work capacity as a function of frequency. In Karwowski, W, Wogalter, MS, and Dempsey, PG (Eds), Ergonomics and Musculoskeletal Disorders: Research on Manual Materials Handling, 1983-1996. Santa Monica, CA: The Ergonomics and Human Factors Society. [*reprinted article selected by editors of special issue as most influential on topic in previous 12 years*]

Journals and Proceedings

1. Fernandez, JE and **Marley, RJ** (2014). The development and application of psychophysical methods in upper-extremity work tasks and task elements. International Journal of Industrial Ergonomics, 44(2), pp. 200-206. [selected as lead article for special issue]
2. E.Wang, C.Plumb, G.Denzine, J.Tester, J.Hamann, **R. Marley**, D Munoz, D.Porter, and A.Vollstedt (2009). Perception of teaching excellence by faculty and administrators in the Engineering Schools of the West. Proceedings of ASEE/IEEE Frontiers in Education Conference, 2009, San Antonio, TX, pp M4E-1 to 6.
3. **Marley, RJ** and Yerneni, H (2003). Modeling of maximum acceptable weight of lift (MAWL) using artificial neural networks. International Journal of Industrial Engineering, 10(4), 577-583.
4. **Marley, RJ** and Thomson, MR (2000). Isokinetic strength characteristics in wrist flexion and extension. International Journal of Industrial Ergonomics, 25(6), 633-643.
5. **Marley, RJ**, and Fernandez, JE (1999). Work thresholds for repetitive hand-intensive activities. International Journal of Industrial Engineering, 6(3), 196-202.
6. **Marley, RJ**, Gebhardt, AJ, Stewart, KJ, and Nicholls, R (1997). A proactive group surveillance protocol for musculoskeletal disorders. In, Das, B, and Karwowski, W (Eds), Advances in Occupational Ergonomics and Safety 1997. Amsterdam: IOS Press, pp. 365-368.
7. **Marley, RJ** and Dugassani, A (1996). Effects of industrial back supports on physiological demand, lifting style and perceived exertion. International Journal of Industrial Ergonomics, 17(6), 445-453.
8. **Marley, RJ**, and Kumar, N (1996). An improved musculoskeletal discomfort assessment tool. International Journal of Industrial Ergonomics, 17(1), 21-27.
9. **Marley, RJ** and Fernandez, JE (1995). Psychophysical frequency and sustained exertion at varying wrist posture for a drilling task. Ergonomics, 38(2), 303-325.

Invited Presentations (selected)

- "Observations from 25 plus years in Engineering Education," Keynote address to 3rd Annual World Conference of the Society for Industrial and Systems Engineering, San Antonio, TX, Oct 20, 2014.
- "Be a Leader." Wichita State University College of Engineering Commencement address, May 17, 2014.
- "Establishing Pre-STEM Educational Partnerships with Research Universities for Underrepresented Students." New Mexico Achievement Gap Summit, Las Cruces, NM, May 26, 2011
- "History, current status, and potential changes to OSHA ergonomic regulation." Dept of Industrial Engineering

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Lecture Series, Virginia Tech, November 16, 2006.

- "A conceptual and strategic process for engineering program assessment: A case study at Montana State University." *Best Assessment Process IV*, Rose-Hulman Institute of Technology, Terre Haute, IN, April 7, 2001.
- "Ergonomic strategies for the utility industry." Western Electric Power Institute Safety Conference, Portland, OR, September 10, 1997 (*Keynote Address*).
- "Ergonomics--Cumulative Trauma Disorders." 1991 Governor's Conference on Workers' Compensation and Safety, Butte, MT, October 23, 1991.

Selected Funding

1. "Designing Our Community," William and Mary Hewlett Foundation, Engineering Schools of the West Program, 2003-2006, **RJ Marley** and H Sherick, Co-PI's, \$734,580.
2. "Increasing CSE&M Degree Opportunities for Low-Income Students in Montana," National Science Foundation, 2000-2003, **RJ Marley**, PI, \$493,648.
3. "Building a Teaching and Learning Community at Montana State University," National Science Foundation, 1998-2000, M Malone, E Swanson, R Walker, **RJ Marley**, and J Adams, Co-PI's, \$200,000.
4. "Science for all: Opening the door for rural women," National Science Foundation, 1997-99, AS Pittendrigh, S Hapner, SL Young, and **RJ Marley**, Co-PI's. \$899,411.

Selected Honors and Awards

- "Resolution of Appreciation," Tau Beta Pi National Executive Council, 2013
- "Meritorious Service Award," American Society for Engineering Education, Board of Directors, 2006.
- "Award of Excellence," MSU Alumni Association and Bozeman Area Chamber of Commerce, 2002.
- "Outstanding Campus Representative," American Society for Engineering Education, PNW Section, 2000
- "Most Influential Papers," 10 Years of Manual Materials Handling Research, Ergonomics and Human Factors Society, 1997
- "Dow Outstanding New Faculty Award," American Society for Engineering Education, 1994
- Boeing Fellowship, Wichita State University, 1988-1990

Selected Service Activities

- Missouri S&T Chancellor's Cabinet, 2014-present
- University of Missouri System Chief Academic Officers Council, 2014-present
- Missouri Department of Higher Education Academic Council, 2014-present
- MSU President's Executive Council, 2013-2014
- MSU Innovation Campus, Advanced Technology, Inc, Board of Directors, 2011 to 2014
- 2yr-4yr Engineering Transfer Policy Summit, National Academy of Engineering, Richmond, VA, June, 2011
- President, International Society for Occupational Ergonomics and Safety (ISOES), 2009-10
- Executive Council, International Society for Occupational Ergonomics and Safety (ISOES), 2008-2011.
- American Society for Engineering Education, National Board of Directors, Chair of Sections Zone IV, 2004-2006 (elected position).

Selected Professional Membership and Certification

- Board Certified Professional Ergonomist-CPE (BCPE # 466)--by nomination and peer review of works; recertified in 2010, 2016
- Professional Registry Member of the Institute of Ergonomics & Human Factors (M.Erg.S.)—by nomination and peer review of works
- Human Factors and Ergonomics Society (Industrial Ergonomics, Safety, Surface Transportation technical groups)
- Alpha Pi Mu (Industrial Engineering Honorary)
- Tau Beta Pi (National Engineering Honorary)
- American Indian Science and Engineering Society.