

William P. Berg, Ph.D.
 Department of Kinesiology and Health
 (2013)

Education and Professional Experience

Education

Ph.D. 1991 University of Minnesota, Minneapolis, MN, Kinesiology
 M.Ed. 1987 The University of Mississippi, University, MS, Physical Education
 B.S. 1985 University of Minnesota, Minneapolis, MN, Social Studies Education and Coaching
 Licensure

Professional Experience

1997-present Associate Professor of Kinesiology and Health, Miami University
 1994-present Research Fellow, Scripps Foundation Gerontology Center, Miami University
 2001 Fall sem. Visiting Faculty, School of Kinesiology, University of Minnesota, Minneapolis, MN
 1991-1997 Assistant Professor of Physical Education, Health, and Sport Studies, Miami University
 1987-1991 Teaching Assistant, School of Kinesiology and Leisure Studies, University of Minnesota,
 Minneapolis, MN
 1990-1991 Temporary Graduate Faculty, School of Kinesiology and Leisure Studies, University of
 Minnesota, Minneapolis, MN
 1987-1991 Assistant Track and Field Coach, Department of Men's Intercollegiate Athletics, University of
 Minnesota, Minneapolis, MN
 1986-1987 Graduate Assistant Men's and Women's Track and Field Coach, Department of Intercollegiate
 Athletics, The University of Mississippi, University, MS

Courses Taught

KNH 184 Motor Skill Learning and Performance, 3 cr.
KNH 184L Motor Skill Learning and Performance Laboratory, 1 cr.
KNH 202 Knowledge Development in Health and Physical Culture, 3 cr.
KNH 381 Biodynamics of Human Performance 3 cr.
KNH 402 Critical Reflection on Practices in Health and Physical Culture, 3 cr.
KNH 453/553 Special Topics: A Dynamical Systems Approach to Motor Skill Acquisition, 2 cr.
KNH 453/553N Special Topics: Motor Control Research, 2. cr
KNH 631 Physiological and Motoric Aspects of Sport, 3 cr.
KNH 681 Human Motor Control and Learning, 4 cr.
KNH 682 Laboratory Techniques in Exercise Science, 2 cr.
KNH 684 Advanced Seminar in Exercise Science, 1 cr.
KLS 8135 Advanced Seminar in Motor Control and Learning, 2 cr. Taught this graduate course Fall 2001 while
 on leave in the Division of Kinesiology at the University of Minnesota, Minneapolis MN.

Independent Studies/Research

Supervised 72 (21 undergraduate, 51 graduate) semester-long independent studies/research experiences via
 Engineering (ERG) 303, Interdisciplinary Studies (WCP) 444 and 445, Kinesiology and Health (KNH) 177,
 277, 377, 477, 600, 620, 700 and Psychology (PSY) 777.

Miami University Undergraduate Summer Scholar Program (KNH 340U)

Kelsey Biller (6 cr., Summer 2014)
Aaron Hannigan (6 cr., Summer 2013)
Brian Richards (6 cr., Summer 2012)
Dirk Dessecker (12 cr., Summer 2009)
Lindsey Monterotti (12 cr., Summer 2000)

Internship Supervision

Supervised 172 semester-long student (133 undergraduate, 39 graduate) internships via Kinesiology and Health (KNH) 420 and 610.

Masters Examination Committees

Served on 65 masters examination committees in the Department of Kinesiology and Health.

Masters Thesis Committees

Served on 16 masters thesis committees in the Departments of Kinesiology and Health, Psychology, and English at Miami University.

Doctoral Qualifying/Comprehensive Exam Committees

Served on 14 doctoral qualifying/comprehensive exam committees at Miami (Psychology Dept.) and the University of Cincinnati (Psychology Dept.).

Doctoral Dissertation Committees

Served on 16 doctoral dissertation committees at Miami University (Psychology Dept.), the University of Cincinnati (Psychology Dept.), and Deakin University (School of Health Sciences), Burwood, Australia.

Supervision of Graduate Teaching Assistants

Supervised 131 semester-long graduate teaching assistantships (111 teaching assistants in Kinesiology and Health (KNH) 184 Motor Skill Learning and Performance and KNH 184L Motor Skill Learning and Performance Laboratory, and 20 graduate teaching assistantships in KNH 140 Volleyball).

Supervision of Research Assistants (assigned and volunteer)

Supervised 70 semester-long research assistantships (35 undergraduate, 35 graduate).

Awards and Recognition for Teaching

- 2013 Richard T. Delp Outstanding Faculty Award in the College of Education, Health & Society
- 2013 Letter of Commendation CELTUA – Result of survey responses from recent graduates.
- 2011 Nominated for Delp Outstanding Faculty Award in the College of Education, Health and Society
- 2010 Formal acknowledgement of having a positive impact on second year students, from the Office of Second Year Programs
- 1999 Selected for the Senior Faculty Program for Teaching Excellence at Miami University.
- 1997 Alumni Enrichment Award. Presented by the Office of Alumni and Parent Programs at Miami University to faculty members who have been judged by their peers and by undergraduates as being outstanding teachers.
- 1995 Teaching/learning project entitled *Advanced Movement Measurement Technology for Learning Enrichment (Berg, 1995)* was presented to the Miami University Board of Trustees as an exemplar of the integration of learning technologies at Miami University.
- 1993 Nominated for the Miami Associated Student Government (ASG) Outstanding Teacher Award.
- 1993 Certificate for special assistance to students in Miami University's Learning Assistance Program.

Teaching workshops and faculty learning communities at Miami University

- 2002, November - Seminar entitled “College Teaching and Learning: Paradoxes Revealed” at the Lilly Conference on College Teaching.
- 2000, January - Workshop on Blackboard/Courseinfo to promote web-enhanced courses.
- 1998, March - Workshop entitled “Web Course in a Box” sponsored by the Committee for the Improvement of Instruction.
- 1997, March - Workshop entitled “Making Large Classes Interactive”, sponsored by the Committee for the Improvement of Instruction.
- 1999-2000 Senior Faculty Program for Teaching Excellence. Participated in numerous seminars, round-tables and retreats focusing on teaching effectiveness, as well as three conferences on college teaching, including:

- Lilly Conference on College Teaching - New England, Boston, MA, October 1999.
- National Lilly Conference on College Teaching, Oxford, OH, November 1999.
- Conference of the American Association for Higher Education (AAHE), New Orleans, LA, Feb. 2000.

Teaching Grants at Miami University

Berg, W.P. (2012). Telemetric Electromyography for Learning Enrichment. Funded by FY12 Student Tech Fee Competitive Process (\$29,580).

Berg, W.P. (project leader) (2009). Three-dimensional motion capture for learning enrichment. Funded by FY10 Student Tech Fee Competitive Process (\$96,600). Team members: Michele Dickey (Educational Psychology, Armstrong Institute for Interactive Media Studies), Ira Greenberg (Art, Armstrong Institute for Interactive Media Studies), Leonard Mark (Psychology), Kumar Singh (Mechanical and Manufacturing Engineering), Dean Smith (Kinesiology and Health), and Mark Walsh (Kinesiology and Health).

Berg, W.P. (2007). Revitalization of KNH 184L: Motor Skill Learning and Performance Laboratory. Funded by the Center for the Enhancement of Learning and Teaching (CELT) Summer Fellowship for the Improvement of Instruction (\$3,000).

Berg, W.P. (2000). Force measurement technology for learning enrichment. Funded by the Learning Technologies Enrichment Program (LTEP) (\$19,955).

Berg, W.P. (2000). Integrating learning experiences using electromyography (EMG) into the Physical Education, Health and Sport Studies curriculum. Funded by the Committee for the Improvement of Learning and Teaching (CELT) Department/Program Grant for the Significant Improvement of Instruction (\$3,810).

Berg, W.P. (1994). Advanced movement measurement technology for learning enrichment. Funded by the Learning Technology Enrichment Program (LTEP) (\$15,000).

Advising Since 1997

Averaged 77 undergraduate advisees and 5 graduate advisees per year since 1997.

Summer Orientation Academic Advising

2000-2010 Performed departmental/divisional advising for incoming KNH/EHS students attending summer orientation. I conducted 138 summer orientation advising sessions of 2-3 hours each.

Research and Scholarship

Book Chapters

Berg, W.P. & Strang, A.J. (2011). The role of electromyography (EMG) in the study of anticipatory postural adjustments. In C. Steele (Ed.), *Applications of EMG in Clinical and Sports Medicine* (pp. 53-68). Rijeka, Croatia, Intech Publishers.

Wade, M.G., & Berg, W.P. (1991). How to study movement in children. In J. Fagard & P.H. Wolff (Eds.), *The development of timing and temporal organization in coordinated action: invariant relative timing, rhythms and coordination* (pp. 261-279). Amsterdam: North-Holland.

Berg, W.P. (1989). Training theory. In TAC (Ed.), *The Athletics Congress coaching education program: Level II manual*. Indianapolis, IN: The Athletics Congress.

Refereed Journal Articles (*student)

Journal articles have garnered 547 citations as reported by Science Citation Index Expanded and Social Sciences Citation Index, and 1102 citations as reported by Google Scholar Citations as of December 31, 2013.

- Berg, W.P., & *Dessecker, D.J. (2013). Evidence of unconscious motor adaptation to cognitive and auditory distractions. *Adaptive Behavior*, 21, 346-355.
- Strang, A., DiDomenico, A., Berg, W., & McGorry, R. (2013). Assessment of differenced center of pressure time series improves detection of age-related changes in postural coordination. *Gait and Posture*, 38, 345-348.
- *Eckerle, J.J., Berg, W.P., & Ward, R.M. (2012). The effect of load uncertainty on anticipatory muscle activity in catching. *Experimental Brain Research*, 220, 311-18.
- *Funk, R.E., *Taylor, M.L., *Creekmur, C.C., Ohlinger, C.M., Cox, R.H., & Berg, W.P. (2012). Effect of walking speed on typing performance using an active workstation. *Perceptual & Motor Skills: Exercise & Sport*, 115, 1-10.
- *Ohlinger, C.M., Horn, T.S., & Berg, W.P., & Cox, R.H. (2011). The effect of active workstation use on measures of cognition, attention and motor skill. *Journal of Physical Activity and Health*, 8, 119-125.
- Berg, W.P., & *Murdock, L.A. (2011). Age-related differences in locomotor targeting performance under structural interference. *Age and Ageing*, 40, 324-329.
- *Bellinger, D.B., *Budde, B.M., *Machida, M., *Richardson G.B., & Berg, W.P. (2009). Effect of cellular telephone conversation and music volume on braking response time. *Transportation Research Part F: Traffic Psychology and Behavior*, 6, 441-451.
- *Strang, A.J., Berg, W.P., & *Hieronymus, M. (2009). Fatigue-induced early onset of anticipatory postural adjustments in non-fatigued muscles: support for a centrally mediated adaptation. *Experimental Brain Research*, 197, 245-254.
- *Strang, A.J., & *Choi, H-J., & Berg, W.P. (2008). The effect of exhausting aerobic exercise on the timing of anticipatory postural adjustments. *Journal of Sports Medicine and Physical Fitness*, 48, 9-16.
- Berg, W.P., *Berglund, E.D., *Strang, A.J., & *Baum, M.J. (2007). Attention-capturing properties of high frequency luminance flicker: implications for brake light conspicuity. *Transportation Research Part F: Traffic Psychology and Behavior*, 10, 22-32.
- *Strang, A.J., & Berg, W.P. (2007). Fatigue-induced adaptive changes of anticipatory postural adjustments. *Experimental Brain Research*, 178, 49-61.
- *Donnelly, D., Berg, W.P., & *Fiske, D. (2006). The effect of the direction of gaze on the kinematics of the squat exercise. *Journal of Strength and Conditioning Research*, 20, 145-150.
- Berg, W.P., & Mark, L.S. (2005). Information for step length adjustment in running. *Human Movement Science*, 24, 496-531.
- *Huff, K.D., *Asaka, Y., *Griffin, A.L., Berg, W.P., *Seager, M.A., & Berry, S.D. (2004). Differential mastication kinematics of the rabbit in response to food and water: implications for conditioned movement. *Integrative Physiological and Behavioral Science*, 39, 16-23.
- *Consiglio, W., *Driscoll, P., *Witte, M. & Berg, W.P. (2003). Effect of cellular telephone conversations and other potential interference on reaction time in a braking response. *Accident Analysis and Prevention*, 35, 495-500.

Berg, W.P., & *Blasi, E.R. (2000). Stepping performance during obstacle clearance in women: age differences and the association with lower extremity strength in older women. *Journal of the American Geriatrics Society*, 48, 1414-1423.

*Irwin, M., *Fitzgerald, C., & Berg, W.P. (2000). The effect of the intensity of wireless telephone conversations on reaction time in a braking response. *Perceptual and Motor Skills*, 90, 1130-1134.

Berg, W.P., & *Lapp, B.A. (1998). The effect of a practical resistance training intervention on mobility in independent, community-dwelling older adults. *Journal of Aging and Physical Activity*, 6, 18-35.

Berg, W.P., Alessio, H.M., Mills, E.M., & *Chen, T. (1997). Correlates of recurrent falling in independent community-dwelling older adults. *Journal of Motor Behavior*, 29, 5-16.

Berg, W.P., Alessio, H.M., Mills, E.M., & *Chen, T. (1997). Circumstances and consequences of falls in independent community-dwelling older adults. *Age and Ageing*, 26, 261-268.

Berg, W.P., & Greer, N.L. (1995). A kinematic profile of the approach run of novice long jumpers. *Journal of Applied Biomechanics*, 11, 142-162.

Berg, W.P., & *Killian, S.M. (1995). Size of the visual field in collegiate fast-pitch softball players and non-athletes. *Perceptual and Motor Skills*, 41, 1307-1312.

Berg, W.P., Wade, M.G., & Greer, N.L. (1994). Visual regulation of gait in bipedal locomotion: revisiting Lee, Lishman and Thomson (1982). *Journal of Experimental Psychology: Human Perception and Performance*, 20, 854-863.

Berg, W.P., Wade, M.G., & Greer, N.L. (1993). Direction of gaze in real-world bipedal locomotion. *Journal of Human Movement Studies*, 24, 49-70.

Lundin, P., & Berg, W.P. (1991). A review of plyometric training. *National Strength and Conditioning Association Journal*, 13(6), 22-30.

Application Articles (*student)

Berg, W.P., & Lundin, P. (2002). Performance vs. learning effects of practice. *New Studies in Athletics*, 17(3/4), 35-41.

*Spohn, T., & Berg, W.P. (1994). Guided learning in diving: part II. *Inside USA Diving*, 2(4), 24-26.

*Spohn, T., & Berg, W.P. (1994). Guided learning in diving: part I. *Inside USA Diving*, 2(3), 19-20.

Lundin, P., & Berg, W.P. (1993). Approach development in the jumps. *New Studies in Athletics*, 8(1), 45-50.

Berg, W.P. (1992). Variable practice: a strategy for optimization of skill learning in youth track and field. *New Studies in Athletics*, 7(3), 45-50.

Articles in Preparation (*student)

Berg, W.P. & Hughes, M. The effect of foreperiod regularity and load uncertainty on anticipatory muscle activity in catching. To be submitted to *Experimental Brain Research*.

*Petrovic, M., Mark, L.S., & Berg, W.P. Effects of object mass and distance on the location of preferred critical boundary, discomfort, and muscle activation during a seated reaching task. To be submitted to *Human Movement Science*.

Berg, W.P., *Richards, B., & *Hannigan, A. The effect of load uncertainty in plyometric exercise on movement speed, muscle torque and activation. To be submitted to *Medicine and Science in Sports and Exercise*.

Refereed Presentations (*student)

Hannigan, A., Richards, B., & Berg, W.P. (2013, November). *The effect of load uncertainty in plyometric exercise on movement time and muscle torque*. Annual Conference of the Midwest Chapter of the American College of Sports Medicine (MWACSM), Merrillville, IN.

Berg, W.P., & Hughes, M. (2013, June). *The effect of load uncertainty on anticipatory and compensatory postural adjustments in catching: Gender differences and foreperiod regularity*. Annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), New Orleans, LA.

Berg, W.P., & Hughes, M. (2012, June). *The effect of load uncertainty and foreperiod regularity on anticipatory and compensatory muscle activity in catching*. Annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Honolulu, HI.

*Richards, B., & Berg, W.P. (2012, November). The feasibility of incorporating load uncertainty into plyometric exercise. Annual Conference of the Midwest Chapter of the American College of Sports Medicine (MWACSM), Oregon, OH.

*Simonson, M., *DiCello, V., *Guinet, M., *Krimmer, K., *Taylor, M., & Berg, W.P. (2011, June). *Effect of cellular telephone conversation and music tempo on braking response time*. Annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Burlington, VT.

*Eckerle, J., & Berg, W.P., & Ward, R.M. (2011, June). *The effect of load uncertainty on anticipatory muscle activity in a one-handed catching task*. Annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Burlington, VT. (Paper earned the award for Best Student Paper in the Motor Learning/Control area.)

Strang, A.J., DiDomenico, A., & Berg, W.P. (2011, July). *Incrementing COP data prior to time-series analysis improves delineation of age-related changes in postural control*. The 8th Progress in Motor Control meeting (PMC VIII), Cincinnati, OH.

Berg, W.P., & *Dessecker, D. (2010, June). *The effect of cellular telephone conversation and loud music on braking force and response time: evidence of distraction-induced compensations*. Annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Tucson, AZ.

*Funk, R., *Taylor, M., *Thirunavukarasu, A., *Creekmur, C., *Mound, A., *Ohlinger, C., Cox, R., & Berg, W.P. (2010, June). *The effect of walking speed on typing performance using an active workstation*. Annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Tucson, AZ.

*Haworth, J., *Kistler, B., *Caserta, B., & Berg, W.P. (2009, October). *Resistive preloading in trained and untrained individuals*. Annual Conference of the Midwest Chapter of the American College of Sports Medicine (MWACSM), St. Charles, IL.

Berg, W.P., & *Murdock, L. (2009, June). *Age-related differences in locomotor targeting performance under structural interference*. Annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Austin, TX.

*Bellinger, D.B., *Budde, B.M., *Machida, M., *Richardson G.B., & Berg, W.P. (2008, June). *Effect of cellular telephone conversation and music volume on braking response time*. Annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Niagara Falls, Ontario, Canada.

*Strang, A.J., & Berg, W.P. (2008, June). *Fatigue-induced adaptations to anticipatory postural adjustments (APAs) found in non-fatigued muscles: support for central control of APA adaptation to fatigue*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Niagara Falls, Ontario, Canada.

Berg, W.P., *Monterotti, L., & *Murdock, L.A. (2007, June). *Age-related differences in locomotor targeting*. Annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), San Diego, CA.

*Strang, A.J., & Berg, W.P. (2006, June). *Fatigue-induced early onset of anticipatory postural adjustments: how is early onset functional?* Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Denver, CO.

*Strang, A.J., *Choi, H-J., & Berg, W.P. (2005, June). *The effect of exhausting aerobic exercise on the timing of anticipatory postural adjustments*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), St. Pete's Beach, FL.

Berg, W.P., *Berglund, E. *Strang, A., & *Baum, M. (2004, September). *The effect of an alternative brake lamp display consisting of high frequency flicker on braking reaction time*. International Conference on Traffic and Transport Psychology (ICTTP), Nottingham, United Kingdom.

*Consiglio, W., *Driscoll, P., *Witte, M., & Berg, W.P. (2003, June). *Effect of cellular telephone conversations and other potential interference on reaction time in a braking response*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Savannah, GA.

*Donnelly, D., *Fiske, D., & Berg, W.P. (2003, November). *The effect of head position on the kinematics of the squat exercise*. Annual Conference of the Midwest Chapter of the American College of Sports Medicine (MWACSM), Bowling Green, OH.

^Berg, W.P., & Mark, L.S. (2002, June). *Tau be or not Tau be: information for regulating step length in running*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Baltimore, MD.

^ The four Berg and Mark entries were unique presentations of data from a study on locomotor control.

^Berg, W.P., & Mark, L.S. (2002, May). *A new hypothesis for visual regulation of gait*. North American Meeting of the International Society for Ecological Psychology (ISEP), Miami University, Oxford, OH.

Berg, W.P., & *Monterotti, L. (2001, June). *Age differences in the use of visual information for controlling step length in walking*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), St. Louis, MO.

^Berg, W.P., & Mark, L.S. (2000, June). *Visual information for controlling step length*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), San Diego, CA.

^Berg, W.P., & Mark, L.S. (1999, August). *Visual information for controlling step length in running*. International Conference on Progress in Motor Control - II, Pennsylvania State University, University Park, PA.

Berg, W.P. (1998, October). *Lower extremity strength and stepping performance during obstacle clearance in independent older women*. Annual Conference of the Midwest Chapter of the American College of Sports Medicine (MWACSM), Cleveland, OH.

*Paasche, J., Berg, W.P., & Mark, L.S. (1998, June). *The effect of vision of the arm and hand on the type of reaching act used*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), St. Charles, IL.

Berg, W.P., & *Blasi, E.R. (1998, June). *The relationship between lower extremity strength and stepping performance during obstacle clearance in older women*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), St. Charles, IL.

Berg, W.P., & *Blasi, E. (1997, June). *Age differences in the kinematics of stepping during obstacle clearance in women*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Denver, CO.

*Lapp, B.A., & Berg, W.P. (1995, November). *The effect of a practical resistance training intervention on mobility in older adults*. Annual Meeting of the Gerontological Society of America (GSA), Los Angeles, CA.

Berg, W.P. (1995, July). *Peripheral visual field constriction in older adults: implications for stability and falls*. International Conference on Perception and Action (ICPA), Marseilles, France.

Berg, W.P., Alessio, H.M., Mills, E.M., & *Chen, T. (1994, November). *Risk factors for recurrent falls among independent older adults*. Annual Meeting of the Gerontological Society of America (GSA), Atlanta, GA.

*Killian, S., & Berg, W.P. (1994, June). *Visual field size in collegiate softball players and non-athletes, and its association with softball batting performance*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Clearwater Beach, FL.

Mills, E.M., Berg, W.P., & Alessio, H.M. (1994, April). *Decade changes in flexibility, muscle strength of the lower extremities, and balance among elderly persons*. Annual Conference of the Midwest Nursing Research Society (MNRS), Milwaukee, WI.

Berg, W.P., Wade, M.G., & Greer, N.L. (1993, August). *Visual regulation of gait in bipedal locomotion: revisiting Lee, Lishman, & Thomson (1982)*. International Conference on Event Perception and Action (ICPA), Vancouver, British Columbia, Canada.

Berg, W.P., Alessio, H.M., & *Chen, T. (1993, June). *Visual acuity and peripheral field loss in older adults and its association with static and dynamic balance*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Brainerd, MN.

Berg, W.P., Wade, M.G., & Greer, N.L. (1992, June). *Direction of gaze in real-world bipedal locomotion*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Pittsburgh, PA.

Berg, W.P., & Greer, N.L. (1991, June). *Visual regulation of gait in bipedal locomotion*. Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Pacific Grove, CA.

Invited Presentations (*student)

*Richards, B., & Berg, W.P. (2013, April). *The effect of load uncertainty on muscle performance: A pilot study*. Undergraduate Research Forum, Miami University, Oxford, OH.

Berg, W.P. (2012, November). *The contribution of anticipatory postural adjustments to human motor control*. Research Forum in the Department of Kinesiology and Health at Miami University, Oxford, OH.

Berg, W.P. (2010, February). *Driven to distraction: attentional demands of cell phone use in drivers*. Colloquium Series in the Department of Kinesiology and Health at Miami University, Oxford, OH.

- *Dessecker, D., & Berg, W.P. (2009, September). *The effect of cellular telephone conversation and loud music on braking force and response time: evidence of distraction-induced compensations*. Undergraduate Summer Scholar Program Information Fair and Reception, Miami University, Oxford, OH.
- Berg, W.P. (2009, June). *Fatal distraction: cell phone use and driving*. Alumni College, Miami University, Oxford, OH.
- Berg, W.P. (2007, April). *Watch where you step, especially in old age: perception-action coupling in visually-guided foot placement*. Exercise Science Colloquium Series in the Department of Kinesiology and Health at Miami University, Oxford, OH.
- Berg, W.P., & Lundin, P. (2002, November). *Performance vs. learning effects of practice*. Annual Allerton Symposium, University of Illinois, Champaign, IL.
- Berg, W.P., & *Monterotti, L. (2001, November). *Aging and visual control of step length: implications for mobility*. Colloquium series of the Division of Kinesiology at the University of Minnesota, Minneapolis, MN.
- *Monterotti, L. & Berg, W.P. (2000, November). *Age differences in the use of visual information for controlling step length in walking*. Undergraduate Summer Scholar Program Information Fair and Reception, Miami University, Oxford, OH.
- Berg, W.P. (1999, October). *Does lower extremity strength contribute to stability in older adults*. Exercise Science Seminar Series, Kent State University, Kent, OH.
- Berg, W.P., & *Blasi, E. (1999, November). *The relationship between lower extremity strength and stepping performance during obstacle clearance in older women*. Scripps Gerontology Center Multidisciplinary Colloquium on Aging, Miami University, Oxford, OH.
- Berg, W.P., & *Blasi, E. (1998, April). *Age differences in stepping performance during obstacle clearance*. Scripps Gerontology Center Mini-Conference on Aging, Miami University, Oxford, OH.
- Berg, W.P. (1997, June). *Falls among older persons: causes, consequences and strategies for prevention*. Alumni Enrichment Award Lecture Series, Miami University, Oxford, OH.
- Berg, W.P. (1997, April). *Age-related changes in vision: implications for mobility*. Scripps Gerontology Center Multidisciplinary Faculty Meeting, Miami University, Oxford, OH.
- Berg, W.P. (1995, March). *Accidental falls in older adults: risk factors and strategies for prevention*. Scripps Gerontology Center Brown Bag Series, Miami University, Oxford, OH.
- Berg, W.P., Alessio, H.M., Mills, E.M., & *Chen, T. (1995, March). *Risk factors for recurrent falls in independent older adults*. Scripps Center Mini-Conference on Aging, Miami University, Oxford, OH.
- Berg, W.P. (1994, October). *Visual regulation of gait in bipedal locomotion*. Colloquium series of the Department of Psychology, University of Cincinnati, Cincinnati, OH.
- Berg, W.P. (1994, October). *Strategies for speed and strength development in adolescents*. Central YMCA, Hamilton, OH.
- Berg, W.P., & Alessio, H.M. (1993, October). *Risk factors for falls and other accidents in older adults*. Oxford Senior Citizens Center, Oxford, OH.

Berg, W.P. (1992, April). *Visual regulation of gait in bipedal locomotion*. Colloquium Series of the Center for Ergonomic Research, Department of Psychology, Miami University, Oxford, OH.

Lundin, P., & Berg, W.P. (1992, January). *Approach development in the jumps*. University of Wisconsin Track and Field Coaches Clinic, Madison, WS.

Berg, W.P. (1991, July). *Tests and measurement in strength and conditioning*. National Strength and Conditioning Association Workshop, National Sports Center, Blaine, MN.

Berg, W.P. (1991, March). *Visual control of locomotion*. Motor Behavior Colloquium Series. Department of Health and Human Performance, Auburn University, Auburn, AL.

Berg, W.P. (1991, January). *Approach strategies in the horizontal jumps*. Minnesota State Track and Field Coaches Clinic, Brooklyn Center, MN.

Berg, W.P. (1990, January). *Training by the energy systems*. Downtown YMCA, Minneapolis, MN.

Berg, W.P. (1988, December). *Periodization for high school track and field*. Iowa High School Track and Field Coaches Convention, Ames, IA.

External Research Grants

Berg, W.P. (1993). *The effect of strength training of the lower extremities on the three measures of mobility in older adults*. Funded by The American Federation of Aging Research - Ohio Affiliate (\$7,500).

Gilkey, R.H. (Wright State University) and participants from Miami University (including William Berg), the University of Cincinnati, and the University of Dayton. (1993). *Ohio Consortium for Virtual Environment Research (OCVER)*. Funded by the Ohio Board of Regents Investment Fund Competition (\$100,000).

In 1996, the Ohio Consortium for Virtual Environment Research (OCVER) submitted a proposal entitled *Human performance, technology, and applications* to the Ohio Board of Regents Investment Fund Competition. This proposal was not funded, however, OCVER was awarded \$590,000 through the Information Technologies Consortium (Oscar Garcia, Wright State University, P.I.), to establish a virtual environment laboratory. The laboratory was established at the Armstrong Laboratories at Wright-Patterson Air Force Base in Dayton, OH.

Wade, M.G., & Berg, W.P. (1990). *Perceptual-motor control in the long jump approach*. Funded by The Athletics Congress (\$2,000).

Internal Research Grants

Hannigan, A., & Berg, W.P. (2013). *The effect of load uncertainty on functional and muscle performance*. Funded by the Undergraduate Summer Scholars Program. (\$1,000)

Berg, W.P. (2012). *The effect of load uncertainty in therapeutic plyometric exercise on functional and muscle performance*. Funded by the School of Education, Health and Society (\$980).

Richards, B., & Berg, W.P. (2012). *The feasibility of incorporating load uncertainty into therapeutic plyometric exercise*. Funded by the Undergraduate Summer Scholars Program. (\$1,000)

Berg, W.P. (2011). *The effect of load uncertainty in therapeutic plyometric exercise on functional and muscle performance*. Funded by the School of Education, Health and Society (\$2,400).

Rush, A., Koo, J-H, & Berg, W.P (2011). Undergraduate Research Award. Collaborative study on human balance using haptic/biofeedback systems. Student investigator: Andrew Rush, Department of Mechanical &

Manufacturing Engineering. Faculty advisors: Dr. Jeong-Hoi Koo, Department of Mechanical & Manufacturing Engineering, and Dr. William Berg, Department of Kinesiology & Health. (\$750).

Berg, W.P. (2009). *The effect of uncertainty about object weight on anticipatory muscle activity in catching*. Funded by the School of Education, Health and Society (\$1,480).

Berg, W.P. (2009). *The effect of loud music and cellular telephone conversation on braking force and response time*. Funded by the School of Education, Health and Society (\$1,975).

Berg, W.P., & Dessecker, D.J. (2009). *Undergraduate Summer Scholar: The effect of cellular phone conversation and music-listening on response time in braking*. Funded by the Undergraduate Summer Scholar (USS) Program. Support for Dirk Dessecker to work full-time for nine weeks, and grants to support research totaling \$1,000.

Berg, W.P. (2007). *Fatigue-induced adaptations to anticipatory postural adjustments (APAs) in non-fatigued muscles: is the central nervous system responsible?* Funded by the School of Education and Allied Professions (\$1,785).

Berg, W.P. (2006). *The effect of structural interference on age-related differences in locomotor targeting*. Funded by the School of Education and Allied Professions (\$1,477).

Berg, W.P. (2005). *Visuo-motor coordination and aging*. Funded by the School of Education and Allied Professions (\$1,454).

Berg, W.P. (2004). *The effect of an alternative brake lamp display consisting of high frequency flicker on braking reaction time*. Funded by School of Education and Allied Professions (\$560).

Berg, W.P. (2001). *Aging and step length control: implications for mobility*. Funded by the Committee on Faculty Research. Award included a Research Graduate Assistantship for the 2002-03 academic year, and a \$1,930 Grant to Promote Research and Scholarship. Award declined due to incomplete funding.

Berg, W.P., & Monterotti, L. (2000). *Undergraduate Summer Scholar: Age differences in the use of visual information for controlling step length in walking*. Funded by the Undergraduate Summer Scholar (USS) Program. Support for Lindsey Monterotti to work full-time for nine weeks, and grants to support research totaling \$900.

Berg, W.P. (1999). *Visual information for controlling step length in running*. Funded by the School of Education and Allied Professions (\$590).

Berg, W.P. (1997). *Visual information for gait modifications in human locomotion*. Funded by the School of Education and Allied Professions (\$600).

Berg, W.P. (1996). *Visual information for gait modifications in human locomotion*. Funded by the Committee on Faculty Research. Award included a Summer Research Appointment for 1997, a Research Graduate Assistantship for the 1997-98 academic year, and a \$4,400 Grant to Promote Research and Scholarship.

Berg, W.P. (1994). *High-risk movement properties and leg strength in older adults: implications for falling behavior*. Funded by the Research Challenge Program (\$11,941).

Berg, W.P. (1993). *Risk factor assessment for falls and other accidents in the elderly*. Funded by the School of Education and Allied Professions (\$521).

Berg, W.P. (1992). *Risk factor assessment for falls and other accidents in the elderly*. Funded by the Committee on Faculty Research (Research Graduate Assistantship for the 1993-94 academic year).

Berg, W.P. (1991). *Risk factor assessment for falls and other accidents in the elderly*. Funded by the School of Education and Allied Professions (\$250).

Berg, W.P. (1991). *Risk factor assessment for falls and other accidents in the elderly*. Funded by the Committee on Faculty Research (Research Graduate Assistantship for the 1992-93 academic year).

Research Awards and Recognition

- 2013 (March) Recipient of the College of Education, Health and Society (EHS) Richard T. Delp Outstanding Faculty Award. Award recognizes "*active engagement in scholarship that advances the field*".
- 2013 (November) My research on the effect of driver conversation on braking response time was featured in The Daily Mail (MailOnline.com).
- 2012 (February) Interviewed by Joanne Will for an article in the Victoria Globe and Mail (Canadian newspaper). (Topic: Music listening and driving safety).
- 2012 (February) Interviewed by Mathieu Perreault for an article in the LaPresse newspaper (Montreal, Canada). (Topic: Music listening and driving safety).
- 1994-present Level A standing on the Graduate Faculty, Miami University.
- 1994-present Research Fellow, Scripps Foundation Gerontology Research Center, Miami University.
- 2010 (August) Research on the effect of driver conversation on braking response time featured in Men's Health Magazine.
- 2007 (May) Research on the effect of the head position on the kinematics of the squat exercise featured in Flex Magazine.
- 2005 Berg, W.P. *EAP Summer Research Award*. Project title: *Visuo-motor coordination and aging*. Presented by the School of Education and Allied Professions (\$5000).
- 2005 Guest on the November 6th broadcast of Viewpoints, a syndicated weekly public affairs radio program broadcast on 320 stations nationwide. (Topic: Hands-free cell phones and driving safety).
- 2001 Awarded a one-semester faculty improvement leave, spent as visiting faculty in the Division of Kinesiology at the University of Minnesota, Minneapolis, MN.
- 2001 Guest on the June 22nd broadcast of WMUB Forum, a weekly public affairs/current events radio program broadcast from Oxford, OH. (Topic: Cell phones and driving safety).
- 2000 (October) Results of a study by Irwin, Fitzgerald and Berg (2000), *The effect of the intensity of wireless telephone conversations on reaction time in a braking response*, were reported nationally by dozens of print, radio, television and online news outlets, including NBC and MSNBC.
- 2000 (November) Interviewed by Navigator Magazine, published by Pace Communications for Holiday Inn. (Topic: Cell phones and driving safety).
- 1998 (May) Interviewed by New Choices Magazine, a publication directed at individuals over age 50. (Topic: The effect of age-related declines in muscular strength and vision on driving safety).
- 1994 School of Education and Allied Professions Assistant Professor Research Award, Miami University.
- 1993 (May) Research featured in "*The fear of falling*", Cincinnati Enquirer newspaper, Cincinnati, OH.
- 1992 (November) Research featured in "*Miami professors seek to prevent seniors' serious falls*", Hamilton Journal-News newspaper, Hamilton, OH.
- 1992 (October) Research featured in "*Miami professors explore cause of falls*", Oxford Press, Oxford, OH.

Service

Service to the University

Membership on University Committees

Faculty Welfare Committee, 2013-present

Instrumentation Laboratory Advisory Committee, 2010-present

Departmental representative to the Miami University Faculty Senate, 1999-2002 (on leave fall 2001), 2004-05

Small Grants Subcommittee of the Committee for the Enhancement of Learning and Teaching (CELT) 2000-04
Chair of the Committee for the Enhancement of Learning & Teaching (CELT), 2002-03. The breadth of programming offered by CELT is extensive and matched by only a few colleges and universities across the country. CELT administers all grants, awards, faculty learning communities, seminars and other events sponsored by both the Committee and the Center for the Enhancement of Learning and Teaching. The year I chaired the Committee (2002-03), it also evaluated all departmental teaching evaluation plans (40+), as well as developed a proposal for a new Center for the Enhancement of Learning and Teaching at Miami. The proposal was presented to Provost Crutcher in March, 2003, and was accepted in its entirety in April, 2003.
 Committee for the Enhancement of Learning & Teaching (CELT), 2000-03
 Business, Education and Social Science Subcommittee of the Committee on Faculty Research, 1995
 Learning Technologies Enrichment Program (LTEP) Proposal Review Committee, 1995
 Adult Health Development Program (AHDP) Steering Committee, 1994

Membership on Divisional Committees

RCM Budget Ad Hoc Committee, 2012-present
 Governance Committee, 2012-present
Chair of Governance Committee 2009-2011
 Academic Appeals Board, 1995-97, 2002-04, 2009-10
 Dean's Faculty Advisory Committee, 2007-09
 Technology Committee, 2000-01
 Committee for the Advancement of Scholarship and Teaching, 1997-99
 Institute for Educational Renewal (IER) Technology Team, 1995
 Computer Policy Committee, 1991-92

Membership on Departmental Committees

Chair of Governance Committee, 2008-present
 Graduate Committee, 2012-present
 Personnel Committee, 2013-present
 Search Committee for position in sport leadership, 2010-2011
 Committee to consider adoption of an online student/course evaluation system, 2010
Chair of Course/Instructor Evaluation Instrument Committee, 2010
 Program Review Core Committee, 2008-09
 Undergraduate Committee, 2007-08
 Search Committee for two positions in dietetics, 2007-08
Chair of Search Committee for a position in physical education/motor behavior, 2006-07
Chair of Committee to revise the department governance document's section on tenure and promotion, 2006-07
 2008-13 Strategic Plan Subcommittee (teaching and advising goals), 2006-07
 2008-13 Strategic Plan Subcommittee (operations, development and governance goals), 2006-07
Chair of Department Teaching Evaluation Plan Committee, 2004-07
Chair of Course/Instructor Evaluation Instrument Committee, 2004
 Search Committee for department chairperson position, 2002-03
Chair of Committee on Technology and Equipment, 2000-01
 Search Committee for position in biomechanics/functional anatomy, 2000-01
Chair of Search Committee for visiting position in biomechanics/functional anatomy, 2000
 Personnel Committee, 1998-2000
 Committee on Enrollment Management, 1998-2000
Chair of Undergraduate Curriculum Feasibility Committee, 1998-99
 Committee on the self-study report for accreditation of the athletic training education program, 1994-96
 Phillips Hall Renovation Committee, 1992-96
 Undergraduate Affairs Committee, 1994
 Graduate Committee, 1992-94

Committee on Teaching and Advising Effectiveness, 1991-92

Other Service to the Department, Division and University

University pre-physical/occupational therapy adviser, 2007-present

Conducted colleague teaching evaluations for Drs. Valeria Freysinger (1992), Ron Iannotti (1995), Helaine Alessio (1996), Jay Kimiecik (1998), Mark Walsh (2003, 2012), Rick Wetzel (2012) Department of Kinesiology and Health

Faculty advisor to the Miami University Student Track and Field Club, 2008-09

Exercise Science Undergraduate Program Leader, 1994-97, 2004-09.

Coordinator of department faculty/student publications display, 1992-2008

Faculty mentor for Dr. Mark Walsh, assistant professor, Department of Kinesiology and Health, 2002-2007

Departmental library representative, 1992-2004

Leader of benchmarking project for exercise science program, 2002-04

Project participant in Documenting Effective Educational Practice (DEEP), 2003

Mentor for Alumni Teaching Scholar, Dr. Glenn Stone, Department of Family Studies & Social Work, 2000-01

Coordinated improvement of KNH Department web site, 2000-02

Presented at Technology Expo 97, Miami University. *Computer-assisted video measurement of movement*, 1997

Hosted participant in the Executives-in-Residence Program, 1994

Service to the Profession

Editorial Responsibilities

Editorial Board, *Human Movement Science*, 1999-present. *Human Movement Science* is an international multidisciplinary journal on human motor control and learning, published by Elsevier.

Editorial Board, *Journal of Excellence in College Teaching*, 2002-04

Journal Manuscript Reviewer: Reviewed manuscripts for the following 28 scholarly journals.

Accident Analysis and Prevention

Adapted Physical Activity Quarterly

Advances in Mechanical Engineering

Age and Ageing

Clinical Epidemiology

Clinical Interventions in Aging

Display

Gait and Posture

Human Movement Science

International Journal of Physical Sciences

International Journal of Sustainable Transportation

Journal of Aging and Physical Activity

Journal of Applied Sport Psychology

Journal of Excellence in College Teaching

Journal of Experimental Psychology: Human Perception and Performance

Journal of Motor Behavior

Journal of Sport and Exercise Psychology

Journal of Sport Sciences

Journal of the American College of Nutrition

Journals of Gerontology: Medical Sciences

Motor Control

Perceptual and Motor Skills

Preventative Medicine

Research Quarterly for Exercise and Sport

Scandinavian Journal of Public Health

Transportation Research Part A: Policy and Practice

Transportation Research Part D: Transport and Environment
 Transportation Research Part F: Traffic Psychology and Behavior

Book Reviewer: Books reviewed include:

Motor Control by Nick Stergiou. Holcomb Hathaway Publishers, 2010
Acquiring Movement Skill: A Constraints-Led Perspective by K. Davids, C. Button, and S. Bennett. Human Kinetics Publishers, 2004 (*published as Dynamics of Skill Acquisition: A Constraints-Led Approach*, 2007)
Coordination and Control of Movement in Sport: An Ecological Perspective by K. Davids, C. Button, and S. Bennett. Human Kinetics Publishers, 2003
Motor Learning and Performance (3rd Edition), by R. Schmidt and C. Wrisberg. Human Kinetics, 2003
Motor Control and Learning (3rd Edition) by R. Schmidt and T. Lee. Human Kinetics Publishers, 2001
Motor Learning and Control for Practitioners by C. Coker. Mayfield Publishing Company, 2000
Motor Learning and Performance (2nd Edition) by R. Schmidt. Human Kinetics Publishers, 1996

Grant Proposal Reviewer

Israel Science Foundation, 2004 *American Federation of Aging Research*, 1997

Conference Programming

Organized symposium entitled *Does Lower Extremity Strength Contribute to Stability in Older Adults?* at the 1998 (October) Annual Conference of the Midwest Chapter of the American College of Sports Medicine (MWACSM) in Cleveland, OH. Participants included M. Pavol, T. Owings, and M. Grabiner from the Department of Biomedical Engineering, Cleveland Clinic Foundation, Cleveland, OH.

Coaching Education

National training theory curriculum coordinator for The Athletics Congress (TAC) Coaching Education Program. (TAC was the governing body of track and field athletics in the United States. The current name of the organization is USA Track and Field), 1991-93
 TAC Coaching Education Executive Committee, 1991-93
 Instructor for seven TAC Level I and II coaching schools in Provo, Colorado Springs, and Minneapolis, 1986-93

Membership in Professional Associations

International Society for Ecological Psychology (ISEP), 1989-92, 2010-present
 North American Society for the Psychology of Sport and Physical Activity (NASPSPA), 1989-present
 American Alliance of Health, Physical Education, Recreation, and Dance (AAHPERD), 1990-present
 The Gerontological Society of America (GSA), 1993-present
 American College of Sports Medicine - Midwest Chapter (MWACSM), 1998-present
 International Alliance of Teacher Scholars, 1999-2004

Leadership in Professional Associations

2013-present Chair of the Motor Control/Learning Scientific Program Committee for the 2015 Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), to be held in Portland, OR in June of 2015.
 2013-present Member of Motor Control/Learning Program Committee for the 2014 Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), to be held in Minneapolis, MN, in June of 2014.
 2008-09 Motor Control/Learning Conference Program Committee for the 2009 Annual Conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Austin, TX.

Service to the Community

2011-present Member of the Ohio Adults Falls Prevention Coalition

Health/Functional Screening

Health screening for fifty men aged 18-65 years, 2010

Vision screening for older adults, 1999, 2005, 2006

Fitness Programs and Health/Functional Screening

2010 Health screening for 50 men aged 18-65 years.

1999, 2005, 2006 Vision screening for 121 adults (age 18-92 years).

1995 Blood pressure, vision, strength, and mobility screening for 52 adult women (age 18-88).

1994 Strength and mobility screening for 24 older adults (age 65-84 years).

1994 Eight-week resistance training program for 24 older adults (age 65-84 years).

1992-1993 Vision, blood pressure, blood cholesterol, reaction and movement time, balance, flexibility, and strength screening for 96 older adults (age 60-88).