

January 2009

CURRICULUM VITA

I. PERSONAL

Name: Beverly D. Ulrich, Ph.D
Professor and Director of Developmental
Neuromotor Control Laboratory

Office Contact Information: School of Kinesiology
401 Washtenaw Ave
University of Michigan
Ann Arbor, MI 48109-2214
email: bdulrich@umich.edu
phone: 734-936-1387

Lab Contact Information: Developmental Neuromotor Control Lab
School of Kinesiology
4740 CCRB Building
University of Michigan
Ann Arbor, MI 48109-2214
Research Associate: Cheryl Drenning
email: csdren@umich.edu
phone: 734-615-1494

II. EDUCATION

Michigan State University
Department of Kinesiology
East Lansing, Michigan
Doctor of Philosophy
Major Emphasis--Motor Development (December, 1984)

West Chester University
Department of Health, Physical Education, and Recreation
West Chester, Pennsylvania
Master of Education in Physical Education (August, 1977)

East Stroudsburg University
Department of Health and Physical Education
East Stroudsburg, Pennsylvania
Bachelor of Science in Health and Physical Education (May, 1973)

III. PROFESSIONAL EXPERIENCES

- January 1, 2009 - Professor, Movement Science, School of Kinesiology,
Director Developmental Neuromotor Control Lab,
Research Professor, Center for Human Growth &
Development
Member, Center for Motor Behavior in Pediatric
Disabilities
- January 1, 1999 - Professor and Dean,
December 31, 2008 Division of Kinesiology [**School of Kinesiology as of
December 1, 2008**]
University of Michigan
Ann Arbor, MI 48109-2214
- 1997-1999 Child Development Professor, School of HPER
(Endowed, competitive professorship,
awarded for the first time, fall of 1997)
- 1989- 1998 Associate Professor (Assistant, through June 1995)
Department of Kinesiology
Indiana University
Bloomington, IN 47405
Associate Faculty, Cognitive Science Program,
Psychology Dept.
- 1987--1989 Assistant Professor (half time)
Department of Kinesiology
Indiana University
Bloomington, IN 47405
- 1985--1989 Research Associate--Infant Development Lab
Psychology Department
Indiana University
Bloomington, IN 47405
- 1984--1985 Lecturer--Motor Development
Physical Education Department
Southern Illinois University
Carbondale, IL 62901

- 1981--1984 Graduate Research Assistant
Physical Education Department
Southern Illinois University
Carbondale, IL 62901
- Graduate Research Assistant
Health and Physical Education Dept.
Michigan State University
East Lansing, MI 48824
- Graduate Teaching Assistant
Physical Education Department
Southern Illinois University
Carbondale, IL 62901
- 1980--1981 Director--Teaching Skills Laboratory
Curriculum, Instruction and Media Department
Southern Illinois University
Carbondale, IL 62901
- 1978--1980 Instructor- Motor Development Courses,
Coordinator- Early Childhood Motor Development
Program, Graduate Supervisor- Remedial Motor
Clinic & Motor Performance Study
Health and Physical Education Dept.
Michigan State University
East Lansing, MI 48824
- 1977--1978 Assistant Varsity Tennis Coach
Department of Intercollegiate Athletics for Women
Michigan State University
East Lansing, MI 48824
- 1973--1977 Elementary Physical Education Teacher and High
School Varsity Tennis Coach
Solanco School District
Quarryville, PA 17551

IV. PUBLICATIONS

A. Published Articles

- Chang, C-L, Kubo, M., Ulrich, B.D. (in press). Emergence of Neuromuscular Patterns During Walking in Toddlers With Typical Development and With Down Syndrome. *Human Movement Science*.
- Black, D., Chang, C-L., Kubo, M., Holt, K., & Ulrich, B.D. (in press). Developmental trajectory of dynamic resource utilization during walking: Toddlers with and Without Down syndrome. *Human Movement Science*.
- Teulier, C., Smith, B., Kubo, M., Chang, L., Moerchen, V., Muraszko, K., & Ulrich, B.D. (2009). Stepping responses of infants with myelomeningocele when supported on a motorized treadmill. *Physical Therapy*, 89(1), 60-72. (PMID: 19056853)
- Corbetta, D & Ulrich, B.D. (2008). Esther Thelen's legacy: A dynamic world that continues to reach out to others. *Infancy*, 13(3), 197-203.
- Smith, B.A., & Ulrich, B.D. (2008). Early onset stabilizing strategies for gait and obstacles: Older adults with Down syndrome. *Gait & Posture*, 28, 448-455. (PMID: 18359229)
- Rademacher, N., Black, D.P., & Ulrich, B.D. (2008). Early spontaneous leg movements in infants born with and without myelomeningocele. *Pediatric Physical Therapy*, 20(2)137-145. (PMID: 18480712)
- Chang, C-L, & Ulrich, B.D. (2008). Lateral stabilization improves walking in people with myelomeningocele. *Journal of Biomechanics*, 41, 1317-1323. (PMID: 18353335; PubMed - in process)
- Wu, J., Looper, J., Ulrich, B.D., Ulrich, D.A., & Angulo Barroso, R.M. (2007). Exploring effects of different treadmill interventions on walking onset and gait patterns in infants with Down syndrome. *Developmental Medicine and Child Neurology*, 49(11), 839-845.
- Black, D., Smith, B.A., Wu, J., & Ulrich, B.D. (2007). Uncontrolled manifold analysis of segmental angle variability during walking: preadolescents with and without Down syndrome. *Experimental Brain Research*, 183, 511-521.
- Smith, B.A., Kubo, M., Black, D.P., Holt, K.G., Ulrich, B.D. (2007). Impact of practice on a novel task, walking on a treadmill: preadolescents with and without Down syndrome. *Physical Therapy*, 87, 1-12.

- Holt, K.G., Saltzman, E., Ho, C-L., & Ulrich, B.D. (2007). Scaling of dynamics in the earliest stages of walking. *Physical Therapy, 87(11)*, 1458-1467.
- Ulrich, B.D. (2007). Motor Development: Core Curricular Concepts. *Quest, 59*, 77-91.
- Spencer, J.P., Clearfield, M., Corbetta, D., Ulrich, B., Buchanan, P., & Schöner, G. (2006). Moving toward a grand theory of development: In memory of Esther Thelen. *Child Development, 77 (6)*, 1521-1538.
- Kubo, M., & Ulrich, B.D. (2006). A biomechanical analysis of the 'highguard' sition of arms during walking in toddlers. *Infant Behavior and Development, 29(4)*, 509-517.
- Looper, J., Wu, J., Angulo Barroso, R., Ulrich, D., & Ulrich, B. (2006). Changes in foot placement variability in newly walking toddlers with typical development and with Down syndrome. *Journal of Motor Behavior, 38(5)*, 367-372.
- Chang, C-L., Kubo, M., Buzzi, U., & Ulrich, B. (2006). Early changes in muscle activation patterns of toddlers during walking. *Infant Behavior and Development, 29(2)*, 175-188.
- Holt, K.G., Saltzman, E., Ho, C-L., Kubo, M., & Ulrich, B.D. (2006). Discovery of the pendulum and spring dynamics in the early stages of walking. *Journal of Motor Behavior, 38(3)*, 206-218.
- Kubo, M. & Ulrich, B. (2006). Early stages of walking: Development of control in mediolateral and anteriorposterior directions. *Journal of Motor Behavior. 38(3)*, 229-237.
- Kubo, M. & Ulrich, B. (2006). Coordination of pelvis-HAT (head, arms and trunk) in anterior-posterior and medio-lateral directions during treadmill gait in preadolescents with/without Down syndrome. *Gait and Posture, 23(4)*, 512-518.
- Ulrich, B.D., & Kubo, M. (2005). Adding pieces to the puzzle: A commentary. *Infant and Child Development, 14*, 519-522.
- Ulrich, B.D., & Reeve, T.G. (2005). Studies in motor behavior: 75 years of research in motor development, learning, and control. *Research Quarterly*

for Exercise and Sport, 76(2), S62-70.

- Ulrich, B.D., Haehl, V., Buzzi, U., Kubo, M., & Holt, K.G. (2004). Modeling dynamic resource utilization in populations with unique constraints: Preadolescents with and without Down syndrome. *Human Movement Science*, 23(2), 133-156.
- Buzzi, U.H., & Ulrich, B.D. (2004). Dynamic stability of gait cycles as a function of speed and system constraints. *Motor Control*, 8(3), 241-254.
- Buchanan, P.A., & Ulrich, B.D. (2004). The Feldenkrais Method: A dynamic systems approach to changing motor behavior. Reprinted in *IFF Academy Research Journal*, 1, 315-323.
- Buchanan, P.A., & Ulrich, B.D. (2004). Attending to the process of changing behavior: A reply to Ives' commentary. Reprinted in *IFF Academy Research Journal*, 1, 124-126.
- Buchanan, P.A. & Ulrich, B.D. (2003). Attending to the process of changing behavior: A reply to Ives' commentary. *Research Quarterly for Exercise and Sport*, 74(2), 124-126.
- Angulo-Kinzler, R., Ulrich, B., & Thelen, E. (2002). Three-month-old infants can select specific leg motor solutions. *Motor Control*, 6, 52-68.
- Ulrich, D., Ulrich, B.D., Angulo-Kinzler, R., & Yun, J.K. (2001). Treadmill training of infants with Down syndrome: Evidence-based developmental outcomes. *Pediatrics*, 108 (5), 1-7.
- Buchanan, P.A. & Ulrich, B.D. (2001). The Feldenkrais Method: A dynamic systems approach to changing motor behavior. *Research Quarterly for Exercise and Sport*, 72, 315-323.
- Haehl, V., Vardaxis, V., & Ulrich, B.D. (2000). Learning to cruise: Bernstein's Theory applied to skill acquisition during infancy. *Human Movement Science*, 19, 685-715.
- Ulrich, B.D., Ulrich, D.A., & Angulo-Kinzler, R.M. (1998). The impact of context manipulations on movement patterns during a transition period. *Human Movement Science*, 17, 327-346.

- Ulrich, B.D. (1997). Technology as a scientific tool for studying motor behavior. *Quest, 49*, 300-305.
- Ulrich, B.D., Ulrich, D.A., Angulo-Kinzler, R., & Chapman, D.D. (1997). Sensitivity of infants with and without Down syndrome to intrinsic dynamics. *Research Quarterly for Exercise and Sport, 68*, 10-19.
- Ulrich, B.D., & Ulrich, D.A. (1995). Spontaneous leg movements of infants with Down syndrome and nondisabled infants. *Child Development, 66*, 1844-1855.
- Ulrich, B.D., Ulrich, D.A., Collier, D.H., & Cole, E. (1995). Developmental shifts in the ability of infants with Down syndrome to produce treadmill steps. *Physical Therapy, 75*, 14-21.
- Jensen, J.L., Ulrich, B.D., Thelen, E., Schneider, K., & Zernicke, R.F. (1995). Adaptive dynamics of the leg movement patterns of human infants: III. Age-related differences in limb control. *Journal of Motor Behavior, 27*, 366-374.
- Ulrich, B.D., Jensen, J.L., Thelen, E., Schneider, K., & Zernicke, R.F. (1994). Adaptive dynamics of the leg movement patterns of human infants: II. Treadmill stepping in infants and adults. *Journal of Motor Behavior, 26*, 313-324.
- Jensen, J.L., Ulrich, B.D., Thelen, E., Schneider, K., & Zernicke, R.F. (1994). Adaptive dynamics of the leg movement patterns of human infants: I. The effects of posture on spontaneous kicking. *Journal of Motor Behavior, 26*, 303-312.
- Winold, H., Thelen, E., & Ulrich, B.D. (1994). Coordination and control in the bow arm movements of highly skilled cellists. *Ecological Psychology, 6*(1), 1-31.
- Ulrich, B.D., Ulrich, D.A., & Collier, D.H. (1992). Alternating stepping patterns: Hidden abilities in 11-month-old infants with Down syndrome. *Developmental Medicine and Child Neurology, 34*, 233-239.
- Ulrich, B.D., Thelen, E., & Niles, D. (1990). Perceptual determinants of action: Stair-climbing choices of infants and toddlers. In J. Clark & J. Humphrey (Eds.), *Advances in motor development research* (Vol 3). (pp.1-15). New

York: AMS Press.

- Schneider, K., Zernicke, R.F., Ulrich, B.D., Jensen, J.L., & Thelen, E. (1990). Understanding movement control in infants through the analysis of limb intersegmental dynamics. *Journal of Motor Behavior*, 22, 493-520.
- Ulrich, B.D., (1989). Development of stepping patterns in human infants: A dynamical systems perspective. *Journal of Motor Behavior*, 21, 392-408.
- Jensen, J.L., Thelen, E., & Ulrich, B.D. (1989). Constraints on multi-joint movements: From the spontaneity of infancy to the skill of adults. *Human Movement Science*, 8, 393-402.
- Ulrich, D.A., Ulrich, B.D., & Branta, C.F. (1988). Developmental gross motor skill ratings: A generalizability analysis. *Research Quarterly for Exercise and Sport*, 59, 203-209.
- Ulrich, B.D. (1987). Perceptions of physical competence, motor competence, and participation in organized sport: Their interrelationships in young children. *Research Quarterly for Exercise and Sport*, 58, 57-67.
- Thelen, E., Ulrich, B.D., & Niles, D. (1987). Bilateral coordination in human infants: Stepping on a split-belt treadmill. *Journal of Experimental Psychology: Human Perception and Performance*, 13, 405-410.
- Ulrich, B.D. & Ulrich, D.A. (1985). The role of balancing ability in performance of fundamental motor skills in 3, 4, and 5-year-old children. In J. Clark & J. Humphrey (Eds.), *Motor development: Current selected research; Vol 1* (pp.87-97). Princeton, NJ: Princeton Book Co.
- Ulrich, B.D. (1984). The effects of stimulation programs on the development of high-risk infants: A review of research. *Adapted Physical Activity Quarterly*, 1, 68-80.
- Ulrich, D.A. & Ulrich, B.D. (1984). The Objectives-Based Motor Skills Test: Validation of instructional sensitivity. *Perceptual and Motor Skills*, 59, 175-179.

B. Articles Under Review

Smith, B.A., Stergiou, N., & Ulrich, B.D. (submitted). Lyapunov exponent and surrogation analysis of patterns of variability: Profiles in new walkers with and without Down syndrome. *Motor Control*.

C. Chapters in Texts

Ulrich, B.D. (1999). Reflections on an emerging career in motor development: Choices and transitions. In J. Haubenstricker & D. Feltz, (Eds.), *100 Years of Kinesiology: History, Research and Reflections* (pp. 215-229). MSU Printing Services.

Ulrich, B.D. (1997). Dynamic systems theory and skill development in infants and children. In K. Connolly & H. Forssberg (Eds.), *Neurophysiology and Neuropsychology of Motor Development* (pp.319-345) London: Mac Keith Press.

Ulrich, B.D., & Ulrich, D.A. (1997). Young children's perceptions of their ability to perform simple play and more difficult motor skills. In J.E. Clark, J.H. Humphrey, & M.A. Robertson (Eds.), *Motor Development: Research & Reviews, Vol 1* (pp.24-45). Reston, VA: NASPE Publications.

Ulrich, B.D., & Ulrich, D.A. (1993). Dynamic systems approach to understanding motor delay in infants with Down syndrome. In G.J.P. Savelsbergh (Ed.), *The development of coordination in infancy* (pp.445-459). Amsterdam: Elsevier Science Publishers.

Ulrich, B.D., Jensen, J.L., & Thelen, E. (1991). Stability and variation in the development of infant stepping: Implications for control. In A.E. Patla (Ed.), *Adaptability of human gait: Implications for the control of locomotion* (pp.145-164). Amsterdam: Elsevier Science Publishers.

Thelen, E., Ulrich, B.D., & Jensen, J.L. (1989). An "outside-in" approach to the development of leg movement patterns. In C. von Euler, H. Forssberg, C. von Hofsten, H. Lagercrantz, & R. Zetterstrom (Eds.), *Neurobiology of early infant behavior* (pp.107-118). New York: Stockton Press.

Thelen, E., Ulrich, B.D., & Jensen, J.L. (1989). The developmental origins of locomotion. In M. Woollacott & A. Shumway-Cook (Eds.), *The development of posture and gait* (pp.25-47). Columbia, SC: University of South Carolina Press.

Ulrich, B.D. (1987). Developmental perspectives of motor skill performance of children. In D. Gould & M. Weiss (Eds.), *Advances in pediatric sport sciences*, Vol. II (pp.167 - 186). Champaign, IL: Human Kinetics Publishers.

D. Monographs & Special Editions

Corbetta, D. & Ulrich, B.D. (2008). Co-Editors, Thematic Issue, dedicated to Esther Thelen's Research Legacy, *Infancy*, 13 (3), 197-283.

Thelen, E. & Ulrich, B.D. (1991). Hidden skills: A dynamic systems analysis of treadmill stepping during the first year. *Monographs of the Society for Research in Child Development*, 56, (1, Serial No.223).

V. GRANTS

A. Grants Funded:

National Institutes of Health- NICHD.

Project title, "Sensorimotor development: Infants born with spina bifida"

Principal Investigator- B. Ulrich; Co-Investigators, V. Moerchen, B.J. Martin

R01 HD047567-01

\$1,303,557 (total costs) Funding period, April 15, 2006- January 31, 2011.

National Institutes of Health- NICHD.

Project title, "Modeling dynamic resources to solve movement problems"

Principal Investigator- B. Ulrich; Co-Investigators, K. Holt, E. Saltzman

R01 HD042728-01

\$730,000 (total costs) Funding period, August 1, 2002 – July 31, 2006.

Rackham/OVPR, University of Michigan

Spring/Summer Research Grant Program, \$4,000 support for doctoral student (Julia Looper) to work with me on my research involving toddlers with Down syndrome. Summer 2004.

Office of Special Education Programs, USDE.

Project title, "Preparation of Leadership Personnel in the Research to Practice Model in Adapted Physical Education & Pediatric Physical and

Occupational Therapy"

Principal Investigator- D. Ulrich; Co-Investigators: B. Ulrich, R. Angulo Barroso, D. Ferris, S. Brown, J. Hornyak
\$ 793,000 (total costs) Funding period, 2002-2006.

National Institute on Disability and Rehabilitation Research, Department of Education.

Project title, "Effects of treadmill stepping on the onset and quality of walking in infants with Down syndrome."

Principal Investigator; Co-PI = Dr. Dale Ulrich

Funding period, September 1, 1994 - August 31, 1997

\$122,471 (total costs) per year for each of 3 years

Indiana University, Research and the University Graduate School/School of HPER matching funds program (program previously funded by NIH via the Biomedical Research Support Grants; recipients selected by the University BRSG Advisory Committee)

Project title, "Pilot Study: Effects of Treadmill Practice on Walking Onset."

Awarded December 1993, \$1,200

National Association for Sport and Physical Activity.

Project title, "Motor Development Academy Position Paper."

Proposal funded to organize a committee to develop a paper outlining the application of research in motor development to intervention practices.

Written and submitted by B. Ulrich, Chair of the Motor Development Academy, 1992-93, \$2,500

National Institute on Disability and Rehabilitation Research, Department of Education.

Project title, "Spontaneous leg movement and sensitivity to somatosensory information in infants with Down syndrome."

Principal Investigator, Co-PI = Dr. Dale Ulrich

Funding period June 1, 1991 - May 31, 1994

\$110,000 (total costs) per year for 3 years

Down Syndrome Research Fund

Project title, "Spontaneous leg movements in infants with Down syndrome.

Co-PI with Dr. Dale Ulrich

Funding period September 1991- September 1992

\$ 10,039

Biomedical Research Support Grant, Division of Research Resources, National Institutes of Health

Project title, "Frequency and Organization of the Leg Action Patterns of Down Syndrome Infants."

Awarded November 1989

\$8,100

Multidisciplinary Ventures Fund Award - Research and Graduate Development Office, Indiana University

Title of proposal, "Dynamical Systems Approach to Cognition and Motor Control."

Investigators: Dr. Robert Port, Dr. Esther Thelen, Dr. Linda Smith, Dr. Janet Metcalfe, Dr. Beverly Ulrich, Helga Winold

Awarded 1987 \$3,000

Multidisciplinary Ventures Fund Award - Research and Graduate Development Office, Indiana University

Title of proposal, "Validation of Developmentally and Ecologically Appropriate Measure(s) of Perceived Competence for Young Children."

Co-PI with Dr. Dale Ulrich

Awarded 1986

\$500

B. Grants Under Review:

VI. PROFESSIONAL HONORS AND AWARDS

Raymond A. Weiss, Distinguished Scholar Award, presented by the American Alliance for Health, Physical Education, Recreation, and Dance, April 9, 2008, Fort Worth, TX.

President-Elect, American Academy of Kinesiology and Physical Education (AAKPE), 2007-2008

NASPSPA Past-Presidents' Liaison to the Executive Board, 2006-2009.

NASPSPA Senior Scholar Lecture, North American Society for the Psychology of Sport and Physical Activity, June 2004, Vancouver, CAN.

Blue Cross Blue Shield of Michigan Foundation Award 2002- Excellence in

Clinical Research, for publication: Ulrich, D., Ulrich, B.D., Angulo-Kinzler, R., & Yun, J.K. (2001). Treadmill training of infants with Down syndrome: Evidence-based developmental outcomes. *Pediatrics*, 108 (5), 1-7.

Research Consortium Scholar Lecturer, March 2001. Presented by Research Consortium of AAHPERD (American Alliance for Health, Physical Education, Recreation, and Dance).

Distinguished Alumni Award, May 1999, Department of Kinesiology, Michigan State University.

President of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), 1998-99; President-Elect, 1997-98; Past President, 1999-2000.

Selected as the Child Development Professor, School of HPER, 1997. (Endowed, competitive professorship designed to promote research in this area)

Indiana University, Teaching Excellence Recognition Award (TERA) recipient, 1997.

Elected to membership as a Active Fellow in the American Academy of Kinesiology and Physical Education (AAKPE, Fellow # 375), 1996.

Early Career Distinguished Scholar Award, presented by the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), June 1992.

Advancement to Fellow status in the Research Consortium (1986) of the American Alliance for Health, Physical Education, Recreation, and Dance.

Recipient of Outstanding Student Presentation Honorarium from the North American Society for Psychology of Sport and Physical Activity. Paper presented at the Olympic Scientific Congress Meetings, Eugene, OR, July 1984.

VII. PROFESSIONAL PRESENTATIONS

Ulrich, B.D. (2008, December). *Infants born with myelomeningocele: Can we do better using principles of dynamic systems theory?* Keynote presented to faculty and students for the Des Moines University's College of Health Sciences Research

Day, Des Moines, IA.

Ulrich, B.D., (2008, June). Gait characteristics in persons with Down syndrome illustrate normal motor behavior processes. In, M. Lenoir & F. Deconinck (Co-Chairs), *Motor development in atypical populations: 'deficit' or 'adaptation'?*. Symposium presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Niagara Falls, ONT.

Teulier, C., Smith, B., Moerchen, V., & Ulrich, B. (2008, June). *Are babies with myelomeningocele able to adapt to speed when supported on a motorized treadmill?* Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Niagara Falls, ONT.

Mulvey, G., & Ulrich, B.D. (2008, June). *New walkers with Down syndrome use cautious but effective strategies for crossing obstacles.* Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Niagara Falls, ONT.

Smith, B., Stergiou, N., & Ulrich, B.D. (2008, June). *Development of gait periodicity in new walkers with Down syndrome: A mathematical perspective.* Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Niagara Falls, ONT.

Ulrich, B.D., (2008, June). *If only I knew then what I know now.* In J. Devonish (Organizer), pre-conference session for Ph.D. students, presented as part of the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Niagara Falls, ONT.

Ulrich, B.D., (2008, April). *Translational science: A roadmap to healthy activity for all.* Raymond A. Weiss, Distinguished Scholar Lecture, American Alliance for Health, Physical Education, Recreation, and Dance, Annual Conference, Fort Worth, TX.

Ulrich, B.D., (2008, April). *Infants born with myelomeningocele: Can we do better?* Workshop presented for the Livingston County Educational Services Center professionals, Howell, MI.

Teulier, C. & Ulrich, B.D. (2007, September). *Can treadmill training affect functional outcomes in myelodysplasia?* Session presented at the annual assembly of the American Academy of Physical Medicine and Rehabilitation, Boston.

Chang, C-L, & Ulrich, B.D. (2007, July). The effect of a lateral stabilizer on walking in

people with spina bifida. Paper presented at the annual meeting of the International Society for Biomechanics, Taiwan.

Ulrich, B.D. (2007, June). *Nature and nurture in the development of children with a disability I: dynamic systems approach to organisms' inherent plasticity that underlies options for therapeutic intervention*. Invited keynote, annual meeting of the European Academy of Childhood Disability, Groningen, The Netherlands.

Teulier, C., Smith, B.A., Black, D., Kubo, M., & Ulrich, B. (2007, June). *Developmental trajectory of treadmill stepping in infants with spina bifida*. Paper presented at the annual meeting of the European Academy of Childhood Disability, Groningen, The Netherlands.

Smith, B.A., Black, D.P., Kubo, M., Holt, K., & Ulrich, B.D. (2007, June). *Impact of practice on stiffness and impulse: Preadolescents with and without Down syndrome*. Poster presented at the annual meeting of the European Academy of Childhood Disability, Groningen, The Netherlands.

Rademacher, N., Black, D., & Ulrich, B. (2007, June). *Early spontaneous leg movements in infants born with and without spina bifida*. Poster presented at the annual meeting of the European Academy of Childhood Disability, Groningen, The Netherlands.

Heathcock, J. & Ulrich, B. D. (2007, June). *Enhanced sensory input changes treadmill stepping in typically developing infants, infants born preterm and infants with spina bifida*. Poster presented at the annual meeting of the European Academy of Childhood Disability, Groningen, The Netherlands.

Smith, B.A., Stergiou, N., & Ulrich, B.D. (2007, June). A comparison of two surrogation algorithms to investigate stability and periodicity in toddler gait. In, R.T. Harbourne & N. Stergiou' (Co-Chairs), *Nonlinear analysis techniques in motor development*. Symposium presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego.

Teulier, C., Rademacher, N., Moerchen, V., Ulrich, B.D. (2007, June). *Specificity of the developmental trajectory of lower limbs in babies with spina bifida*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego.

Black, D.P, Smith, B.A., & Ulrich, B.D. (2007, June). *Variability in "stable" walkers with typical development and with Down syndrome: Controlled or uncontrolled?*

Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego.

Chang, C-L, Kubo, M., Ulrich, B.D. (2007, June). *Muscle activity during walking in toddlers with and without Down syndrome*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego.

Chang, C-L & Ulrich, B.D. (2007, June). *The relationship between muscle strength and walking in people with spina bifida*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego.

Ulrich, B.D. (2006, October). *Body-weight supported treadmill steps in infants born with spina bifida*. Paper presented at the biennial meeting of the North American Federation of Adapted Physical Activity, Ann Arbor, MI

Black, D., & Ulrich, B.D., & Smith, B.A.(2006, October). *Effects of treadmill practice on muscle activation in children with Down syndrome*. Paper presented at the biennial meeting of the North American Federation of Adapted Physical Activity, Ann Arbor, MI

Smith, B.A., Black, D., Kubo, M., Holt, K., & Ulrich, B.D. (2006, October). *Effects of treadmill speed & practice on stride length & step width in preadolescents with & without Down syndrome*. Paper presented at the biennial meeting of the North American Federation of Adapted Physical Activity, Ann Arbor, MI

Ulrich, B.D. (2006, September). *Motor development: Core curricular concepts*. Invited talk presented at the Annual Meeting of the American Academy of Kinesiology and Physical Education. Tucson, AZ.

Ulrich, B.D. (2006, June). Principles of motor behavior: Infants born with spina bifida. In J. Valvano (Chair), *Motor interventions for infants and children with neurological disorders*. Symposium presented at the North American Society for the Psychology of Sport and Physical Activity meetings, Denver.

Smith, B.A., Black, D.P., Kubo, M., Holt, K.G., & Ulrich, B.D. (2006, June). *Effects of treadmill practice on stiffness and forcing in preadolescents with*

and without Down syndrome. Poster presented at the North American Society for the Psychology of Sport and Physical Activity meetings, Denver.

Chang, C-L., Kubo, M., Holt, K., & Ulrich, B.D. (2006, June). *Mathematical modeling of stiffness and impulse: Toddlers with and without Down syndrome*. Poster presented at the XVth Biennial International Conference on Infant Studies, Kyoto, Japan.

Ulrich, B.D., & Moerchen, V. (2006, June). *Patterns of response to being supported on a treadmill: Infants born with spina bifida*. Poster presented at the XVth Biennial International Conference on Infant Studies, Kyoto, Japan.

Ulrich, B.D. (2006, May). Motor development in clinical settings. In T.Korff (Chair), *Motor development: Putting the pieces of the puzzle together*. Symposium presented at the American College of Sport Medicine meetings, Denver.

Ulrich, B.D. (2006, May). *Combining the expertise of modelers and clinical scientists to maximize the outcomes for rehabilitation*. Invited talk presented at the Dynamic Walking Workshop, University of Michigan, Ann Arbor.

Holt, G., Saltzman, E., Ho, C.-L., Kubo, M., & Ulrich, B. (2006, May). *Discovery of pendulum an dspring dynamics in the early stages of walking*. Talk presented at the Dynamic Walking Workshop, University of Michigan, Ann Arbor.

Smith, B., Black, D., Kubo, M., Holt, K., & Ulrich, B. (2006, May). *Mathematical modeling of stiffness and forcing in preadolescents with and without Down syndrome*. Poster presented at the Dynamic Walking Workshop, University of Michigan, Ann Arbor.

Ulrich, B.D. (2006, March). *Application of current theory of neuroplasticity to research and intervention*. Invited talk presented to staff at Chelsea Community Hospital. Chelsea, Michigan.

Kubo, M., & Ulrich, B.D. (2005, August). *Early stages of walking: Directional differences in toddlers with/without Down syndrome*. Poster presented at Progress in Motor Control V: A multidisciplinary perspective. State College, PA.

- Ulrich, B. (2005, July). *Dynamic systems and pediatric disorder: Down syndrome*. Invited presentation, III Step Conference: Linking Movement Science and Intervention (sponsored by the Neurology and Pediatrics Sections of the APTA), Salt Lake City, UT.
- Ulrich, B. (2005, May). *Desarrollo motor en niños con síndrome de down (Motor development in infants and children with Down syndrome)*. Lecture sponsored by Faculty of Psychology of the University of Murcia and CajaMurcia, Murcia, Spain.
- Ulrich, B. & Moerchen, V. (2005, May). *Infants with spina bifida: Body weight supported treadmill stepping over the first postnatal year*. Paper presented at Motor development and learning in infancy II: Fundamental concepts and applications, Murcia, Spain.
- Kubo, M. & Ulrich, B.D. (2005, May). *Coordination of pelvis and head-arms-trunk in anterior-posterior and medio-lateral directions during treadmill gait in preadolescents*. Poster presented at Motor development and learning in infancy II: Fundamental concepts and applications, Murcia, Spain.
- Looper, J. & Ulrich, B.D. (2005, May). *Control of motion in medial-lateral versus anterior-posterior directions: New walkers*. Poster presented at Motor Development and learning in infancy II: Fundamental concepts and applications, Murcia, Spain.
- Looper, J. & Ulrich, B.D. (2005, May). *Control of motion in medial-lateral versus anterior-posterior directions: New walkers*. Poster presented at Motor development and learning in infancy II: Fundamental concepts and applications, Murcia, Spain.
- Chang, C-L., Kubo, M., & Ulrich, B.D. (2005, May) *Muscle activation variability in new walkers and after three months walking experience*. Poster presented at Motor development and learning in infancy II: Fundamental concepts and applications, Murcia, Spain
- Buzzi, U., & Ulrich, B.D. (2005, May) *Locomotor adaptations to altered center of mass (COM) position in toddlers*. Poster presented at Motor development and learning in infancy II: Fundamental concepts and applications, Murcia, Spain
- Ulrich, B., Fisher-Thompson, D., Jensen, J., & Vereijken, B. (2005, April). The first steps: Setting the stage. In J.P. Spencer & G. Schöner (Chairs), *Moving toward a grand theory of development: In memory of Esther*

Thelen. Presidential Address presented at the Biennial Conference of the Society for Research in Child Development, Atlanta, GA.

- Ulrich, B.D. (2004, August). *Emergence of movement patterns through repeated cycles of perceiving and acting*. Invited Scholar Lecture presented at, Movement and the Development of Self Multidisciplinary Symposium on Research and the Feldenkrais Method, Seattle, WA.
- Ulrich, B.D. (2004, June). *Lines of research: Theory leading to intervention*. Invited Senior Scholar Lecture presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Vancouver, B.C.
- Buzzi, U., Kubo, M., Chang, C.L., Ulrich, B.D., & Holt, K.G. (2004, June). Gait parameters and the kinematics of walking: Preadolescents and new walkers, with TD and with DS. In Ulrich, B.D. (Chair) *Modeling strategies for utilizing dynamic resources over developmental time*. Symposium conducted at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Vancouver, B.C.
- Kubo, M., Buzzi, U., Holt, K.G., Saltzman, E., & Ulrich, B.D. (2004, June). Kinetics of walking: Dynamic resource use changes across development and between children with and without DS. In Ulrich, B.D. (Chair) *Modeling strategies for utilizing dynamic resources over developmental time*. Symposium conducted at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Vancouver, B.C.
- Holt, K.G., Saltzman, E., Ho, C.L., Kubo, M., Buzzi, U., & Ulrich, B. (2004, June). Modeling: Developmental approach uncovers changes in underlying strategies. In Ulrich, B.D. (Chair) *Modeling strategies for utilizing dynamic resources over developmental time*. Symposium conducted at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Vancouver, B.C.
- Kubo, M. & Ulrich, B. (2004, June). A biomechanical analysis of “high guard” in toddlers. Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Vancouver, B.C.
- Buzzi, U., & Ulrich, B. (2004, May). Adaptations in infant gait to altered balance demands. Poster presented at the 14th Biennial International Conference on Infant Studies, Chicago, IL.

- Ulrich, B.D. (2004, May). Dynamic systems perspective (discussant). In Goldfield, E. (Chair) *Dynamics of infant learning*. Symposium conducted at the 14th Biennial Conference on Infant Studies, Chicago, IL.
- Buzzi, U., Kubo, M., & Ulrich, B.D. (2004, March). Modeling dynamic resources in children with Down syndrome during locomotion. In Ulrich, D.A. (Chair) *Motor behavior in neurodevelopmental disabilities: Theory, modeling, and evidence-based intervention*. Symposium conducted at the annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Diego, CA.
- Kubo, M., Buzzi, U., & Ulrich, B. (2003, August). A floquet analysis of gait on a treadmill in children with/without Down syndrome. Poster presented at the Congress in Motor Control IV, Caen, France.
- Ulrich, B.D., Angulo Barroso, R.M., & Ulrich, D.A. (2003, June). Patterned behavior in infants with and without Down syndrome: Same processes, unique subsystems. In Ringenbach, S. (Chair) *Motor behavior in persons with Down syndrome: Transcending timescales and theories*. Symposium conducted at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Savannah, GA.
- Ulrich, B.D. (2003, June). Developing motor skills: From theory to evidence to intervention. Invited workshop presented in the Department of Exercise Science, University of South Carolina, Columbia, SC.
- Haehl, V., Holt, K.G., & Ulrich, B.D. (2003, June). Modeling the basic task used in an intervention strategy. Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Savannah, GA.
- Ulrich, B.D. (2003, March). Motor skill acquisition: Lessons from basic and applied science. Invited talk, presented in the Department of Physical therapy, University of Delaware.
- Ulrich, B.D. (2002, November). Emergence of stiffness and forcing patterns in new walkers. Paper presented at the annual meeting of the Motor Development Research Consortium, Austin, TX.
- Buzzi, U., Ulrich, B.D., & Haehl, V. (2002, June). *Dynamic sources of variability in gait: Children with and without Down syndrome*. Poster presented at the

annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Baltimore, MD.

Haehl, V., Holt, K.G., & Ulrich, B.D. (2002, June). *Modeling dynamic resources that drive emergent walking patterns in children with Down syndrome*. Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Baltimore, MD.

Ulrich, B.D. (2002, April). Dynamic systems approach to explaining processes that underlie the emergence of and differences in patterns of behavior. Invited keynote address presented at the Gait and Clinical Movement Analysis Society conference, Chattanooga, TN.

Ulrich, B.D. (2001, December). *Dynamic systems theory: A foundation for understanding motor development and intervening in developmental disorders*. Invited keynote address presented at the Sixth Biennial Motor Control and Human Skill Research Workshop. Fremantle, Australia.

Ulrich, B.D., Haehl, V., & Young, J. (2001, June). *Impact of prior history on patterns that emerge to meet new task demands*. Talk presented at the conference, Motor Development and Learning in Infancy: Behavioural, Neurological and Modelling Issues. Amsterdam.

Haehl, V., & Ulrich, B.D. (2001, June). *Spatial and temporal fluctuations in head movement during walking in children with Down syndrome*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, St. Louis.

Ulrich, B.D. (2001, April). *Understanding gait through mathematical modeling: Children with Down syndrome*. Invited talk, given in the Department of Physical Therapy, New York University.

Ulrich, B.D. (2001, March). *Developing motor skills: How complexity engenders coordination and control*. Invited Research Consortium Scholar Lecture, American Alliance for Health, Physical Education, Recreation, and Dance, Cincinnati, OH.

Ulrich, B.D., (2001, February). *Modeling gait patterns of children with Down syndrome*. Invited talk to Perceptual-Motor Development Research Group, Institute for Fundamental and Clinical Human Movement Sciences, Vrije Universiteit, Amsterdam.

- Haehl, V., Vardaxis, V., & Ulrich, B. (2001, February). *Learning to walk: What infants can teach us about the process of skill acquisition*. Paper presented at the Combined Sections Meeting of the American Physical Therapy Association, San Antonio.
- Ulrich, B.D., Ulrich, D.A., Yun, J., & Angulo-Kinzler, R.M. (2000, July). *Onset of walking in Down syndrome*. Poster presented at the biennial meeting of the International Society for Infant Studies, Brighton, England.
- Haehl, V., Vardaxis, V., Ulrich, B.D. (2000, July). *Learning to let go: Skill acquisition during infancy*. Poster presented at the biennial meeting of the International Society for Infant Studies, Brighton, England.
- Ulrich, B.D. (2000, June). Reactor's paper. In Reid, G. (Chair) *Can the study of movement disabilities aid in understanding typical motor behavior?* Symposium conducted at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego, CA.
- Haehl, V., Vardaxis, V., & Ulrich, B. (2000, June). *Strategies infants use while learning to walk*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego, CA. [abstract published: *Journal of Sport and Exercise Psychology: 2000 NASPSA Abstract, 22, supplement S48*]
- Hoffman, L., & Ulrich, B.D. (2000, June). *Pregnancy: Significant impact over time on women's gait patterns*. Poster presented at the annual conference of the American Physical Therapy Association, Indianapolis, IN.
- Ulrich, B.D. (2000, May). *Dynamic systems: Importance for clinicians and pediatricians*. Invited keynote address for Dynamics in Child Development: Perspectives for Pediatric Physical Therapy. Wilhelmina Children's Hospital, Utrecht, The Netherlands.
- Ulrich, B.D. (2000, April). *How do infants with and without Down syndrome learn to walk? By solving the same puzzle with different pieces*. Invited talk presented at the Columbia University Annual Conference in Movement Sciences, New York.
- Yun, J., Ulrich, B.D., & Ulrich, D.A. (March, 2000). *The effects of stepping practice on the organization of degrees of freedom in infants with Down*

syndrome. Poster presented at the annual meeting of the American Alliance for Health, Physical Education, Recreation, and Dance, Orlando, FL.

- Ulrich, B.D. (2000, February). *Processes of motor development*. Invited keynote presentation, presented at the 1st Annual Conference on Children with Down Syndrome, "Research and Knowledge for Care in the Future." Sponsored by the Center for Infant and Child Development at the University of South Florida, Tampa, FL.
- Ulrich, B.D. (2000, February). *Approaches for improving motor development*. Invited workshop presentation, presented at the 1st Annual Conference on Children with Down Syndrome, "Research and Knowledge for Care in the Future." Sponsored by the Center for Infant and Child Development at the University of South Florida, Tampa, FL.
- Haehl, V. & Ulrich, B.D. (1999, June). *Changes in movement control and coordination of the trunk during the development of walking*. Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Clearwater Beach, FL.
- Yun, J., Ulrich, B., & Ulrich, D. (1999, June). *Evaluation of an attractor state in treadmill steps: Variability as a unit of measurement*. Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Clearwater Beach, FL.
- Ulrich, B.D. (1999, May). *Using dynamic systems principles to understand motor delay in infants with Down syndrome*. Paper presented at the 12th international Symposium for Adapted Physical Activity, Barcelona, Spain.
- Ulrich, D.A. & Ulrich, B.D. (1999, May). *The impact of treadmill exercise on the rate of locomotor skill development in infants with Down syndrome*. Paper presented at the 12th International Symposium for Adapted Physical Activity, Barcelona, Spain.
- Ulrich, D.A., & Ulrich, B.D. (1999, March). *Treadmill training facilitates the onset of walking in infants with Down syndrome*. Paper presented at the 32nd annual Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities, Charleston, SC.
- Haehl, V. & Ulrich, B.D. (1999, February). *Development of postural control during cruising*. Paper presented at the annual meeting of the American

Physical Therapy Association, Seattle, WA.

- Ulrich, B.D. (1998, November). *Dynamic systems theory: Research in rehabilitation*. Invited paper presented at the annual meeting of the American Congress of Rehabilitation Medicine, Seattle, WA.
- Ulrich, B.D. (1998, October.) *Factors contributing to motor rehabilitation in infants with Down syndrome and spina bifida*. Invited paper presented at the III International Congress of Motor Rehabilitation, Aguas de Lindoia, Brazil.
- Ulrich, B.D. (1998, October.) *Trends in the study of motor development*. Invited paper presented to students and faculty in the Department of Physical Education, State University of Sao Paulo, Rio Claro, Brazil.
- Haehl, V., & Ulrich, B.D. (1998, June.). *Changes in movement control and coordination of the trunk during the development of walking*. Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, St. Charles, IL.
- Yun, J. Ulrich, B.D., & Ulrich, D.A. (1998, June). *Evaluation of an attractor state in treadmill steps: Variability as a unit of measurement*. Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, St. Charles, IL.
- Ulrich, B.D., (1998, April). *Dynamic systems approach to development: Basic and applied research*. Invited presentation made to the faculty in the Departments of Physical Therapy and Physical Education, University of Rhode Island, Kingston, RI.
- Davis, D.W., Ulrich, B.D., Wilkerson, S.W. (1998, April). *Treadmill stepping in preterm infants*. Poster presented at the biennial meeting of the International Society for Infant Studies, Atlanta, GA.
- Ulrich, B.D. (1998, March). *Charting a course for the future: Goals, trends, and shared responsibilities*. Invited presentation made to the faculty of the School of Exercise, Leisure, and Sport, Kent University, Kent, Ohio.
- Ulrich, B.D. (1998, January). *Dynamic systems theory: From myths, to principles, to multidisciplinary data*. Invited special lectures series sponsored by Auburn University and the Department of Health and Human Performance,

Auburn, AL.

- Ulrich, B.D. (1998, January). *Motor development in infants: How they (and we) acquire new motor skills*. Invited lecture sponsored by Auburn University and the Department of Health and Human Performance, Auburn, AL.
- Angulo-Kinzler, R.M., Ulrich, B.D., Thelen, E. (1997, October). *Developmental changes in infant muscle patterns as a function of Locomotor context*. Poster presented at the 27th annual meeting of the Society for Neuroscience, New Orleans.
- Ulrich, B.D. (1997, September). Dynamic systems theory and skill development. In Connolly, K. (Chair) *Symposium on motor development*. Invited talk presented at the annual meeting of the American Academy for Cerebral Palsy and Developmental Medicine, Portland, OR.
- Ulrich, B.D. & Thelen, E. (1997, May). Levels of control in the development of skills: Theory. In Ulrich, B.D. (Chair) *Levels of control in the development of skills: Theory and data*. Symposium conducted at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Denver. [abstract published: *Journal of Sport and Exercise Psychology: 1997 NASPSPA Abstracts, 19, supplement, S9*]
- Angulo-Kinzler, R.M. & Ulrich, B.D. (1997, May). Control of load, timing, and goal in the development of walking. In Ulrich, B.D. (Chair) *Levels of control in the development of skills: Theory and data*. Symposium conducted at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Denver. [abstract published: *Journal of Sport and Exercise Psychology: 1997 NASPSPA Abstracts, 19, supplement, S9*]
- Ulrich, B.D., Ulrich, D.A., & Angulo-Kinzler, R.M. (April, 1997). *Context effects on behavior during transitional periods*. Poster presented at the biennial meeting of the Society for Research in Child Development, Washington, D.C.
- Ulrich, B.D. (March, 1997). *Changing the course of early motor development: Recent findings and applications*. Invited seminar presented for the Department of Special Education, Associated Colleges of Central Kansas, McPherson, KS.

- Ulrich, D.A., Ulrich, B.D., & Angulo-Kinzler, R.M. (March, 1997). *The effect of treadmill training on the onset of walking in infants with Down syndrome*. Paper presented at the International Conference on Chromosome 21 and Medical Research on Down Syndrome, Barcelona, Spain.
- Angulo-Kinzler, R.M., Ulrich, B.D., Ulrich, D.A., & Thelen, E. (March, 1997). *The impact of practice on the patterns of walking in infants with and without Down syndrome*. Poster presented at the International Conference on Chromosome 21 and Medical Research on Down Syndrome, Barcelona, Spain.
- Ulrich, B.D. (November, 1996). *Learning to walk in infants with and without Down syndrome: Solving the same puzzle with different pieces*. Invited colloquium, sponsored by the Department of Health, Kinesiology, and Leisure Studies, Purdue University.
- Angulo-Kinzler, R.N., Chapman, D., Ulrich, B., & Thelen, E. (November, 1996). *Context effects on neuromuscular control of stepping in newly-walking infants*. 26th annual meeting of the Society for Neurosciences. Washington, D.C.
- Ulrich, B. (1996, September). *Technology as a scientific tool for studying motor behavior*. Invited presentation at the annual meeting of the American Academy of Kinesiology and Physical Education, Danvers, MA.
- Ulrich, B., Ulrich, D., & Angulo-Kinzler, R. (1996, June). *The effects of context on transitional behavior patterns*. Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Minnet, Ontario, Canada..
- Ulrich, B., Angulo-Kinzler, R., Chapman, D., & Thelen, E. (1996, April). *Context effects on neuromuscular control during stepping in newly walking infants*. Poster presented at 10th International Conference on Infant Studies, Providence, RI..
- Mauerberg, E., Ulrich, B.D., & Angulo-Kinzler, R.M. (1995, October). *Environmental constraints upon treadmill stepping patterns of babies with Down syndrome*. Paper presented at the Societe Canadienne Apprentissage Psychomotor et de Psychologie du Sport (SCAPPS) conference, Burnaby, British Columbia, Canada.

- Chapman, D., Angulo-Kinzler, R., Ulrich, B.D., & Thelen, E. (1995, August). *The effect of context on the muscle activation patterns of newly walking infants*. Poster presented at the American Physical Therapy Association Research Section Meetings, New Hampton, NH.
- Angulo-Kinzler, R., Chapman, D., Ulrich, B., & Thelen, E. (1995, June). *Context effects on the muscle activation patterns of newly walking infants*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Pacific Grove, CA.
- Ulrich, B.D. (1995, April). *Dynamic systems theory: From myths to principles to multidisciplinary data*. Presentation made at Oregon State University, Corvallis, OR: Invited by the Department of Exercise and Sport Science.
- Ulrich, B.D. (1995, April). *Skill acquisition in infants: The beginning of the dynamic systems story*. Presentation made at Oregon State University, Corvallis, OR: Invited by the Department of Exercise and Sport Science.
- Ulrich, B.D., Angulo-Kinzler, R.M., Ulrich, D.A., & Chapman, D.D. (1995, April). *Individual differences in the intrinsic dynamics of leg movements in infants with and without Down syndrome*. Paper presented at the biennial meeting of the Society for Research in Child Development, Indianapolis, IN.
- Ulrich, D.A. & Ulrich, B.D. (1995, February). *Rationale and protocol for treadmill therapy for infants*. Invited presentation made to the Developmental Pediatrics Journal Club, Riley Children's Hospital, Indianapolis, IN.
- Ulrich, B.D. (1994, November). *Motor control in infants with Down syndrome*. Invited speaker at the Second International Conference on Motor Control in Down Syndrome, Chicago, IL.
- Ulrich, B.D., Ulrich, D.A., & Angulo-Kinzler, R. (1994, November). *Interlimb coordination: Sensitivity to unilateral perturbations in infants with Down syndrome*. Paper presented at the Second International Conference on Motor Control in Down Syndrome, Chicago, IL.
- Ulrich, B.D. (1994, October). *Interlimb coupling during spontaneous movement: Movement frequency vs. movement trajectory*. Paper presented at the annual meeting of the Motor Development Research Consortium,

Baltimore, MD.

- Ulrich, B.D. (1994, June). *Using a dynamic systems approach to understand skill acquisition*. Invited talk presented to the Neuroscience Faculty at the University of Tübingen, Tübingen, Germany.
- Ulrich, B.D., Ulrich, D.A., & Angulo-Kinzler, R. (1994, June). *Interlimb sensitivity to perceptual-motor information*. Paper presented at the 9th International Conference on Infant Studies, Paris, France.
- Ulrich, B.D., Ulrich, D.A., Angulo-Kinzler, R., & Chapman, D. (1994, June). *Bilateral sensitivity to unilateral perturbations in infants with and without Down syndrome*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Clearwater, FL.
- Ulrich, B.D. (1993, June). *Understanding change in motor patterns: Theoretical directions and empirical data*. Early Career Distinguished Scholar Award (1992) Lecture presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Brainard, MN.
- Ulrich, B.D., & Ulrich, D.A. (1993, June). *A contemporary view of motor delay in infants with Down syndrome: Addressing processes of change*. Presentation made at the annual conference of the American Physical Therapy Association, Cincinnati, OH.
- Ulrich, D.A., & Ulrich, B.D. (1993, June). Spontaneous leg movements in infants with Down syndrome: A basis for delayed changes in coordination and control. In M.G. Wade (chair), *Mechanisms of motor control in atypical development: The case of Down syndrome*. Symposium presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Brainard, MN.
- Ulrich, B.D. (1992, November). *Infant motor development: Perspectives on normally and atypically developing infants*. Invited seminar presented to the Department of Physical Education and Exercise Science, Michigan State University, East Lansing, MI.
- Ulrich, B.D., & Ulrich, D.A. (1992, November). *Developmental and biomechanical aspects of infant movement control and coordination*. Invited paper presented at the Big Ten, CIC Conference: Capstone

Knowledge of Kinesiology, Ann Arbor, MI.

- Ulrich, B.D. (1992, October). Conceptualizing motor development from a dynamic systems perspective. In Ulrich, D. (Chair), *Dynamic systems approach to studying motor development in children with Down syndrome*. Symposium conducted in Symposium 92: North American Federation of Adapted Physical Activity, Montreal.
- Winold, H., Thelen, E., & Ulrich, B.D. (1992, July). *Cognitive dynamics of cello performance: Bowing in highly skilled cellists*. Paper presented at the Annual Conference of the Cognitive Science Society, Bloomington, IN.
- Ulrich, B.D., Ulrich, D.A., Collier, D.H., & Cole, E. (1992, June). *Topography of supported stepping patterns in infants with Down syndrome*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Pittsburgh, PA.
- Ulrich, B.D., Jensen, J.L., Thelen, E., Schneider, K., & Zernicke, R.F. (1992, May). *Intersegmental dynamics during the swing phase of infant and adult treadmill steps*. Paper presented at the XIth International Symposium on Posture and Gait: Control Mechanisms, Portland, OR.
- Ulrich, B.D., Jensen, J.L., Thelen, E., Schneider, K., & Zernicke, R.F. (1992, May). *Control of infant and adult treadmill steps*. Paper presented at the biennial meeting of the International Society for Infant Studies, Miami Beach.
- Ulrich, B.D. (1992, April). *Dynamic systems theory as a model for studying motor development in infants with Down syndrome*. Invited speaker at conference, Motor Behavior: Theory to Practice, sponsored by the Robert Wood Johnson Medical School and the Department of Pediatrics at the University of Medicine and Dentistry of New Jersey, New Brunswick, NJ.
- Ulrich, B.D. (1992, April). *Examples of research based on the dynamic systems perspective*. In J.Clark & B.Ulrich (Chairs), *Dynamic systems and motor development- What I always wanted to know and never had a chance to ask!* Symposium conducted at the annual meeting of the American Alliance for Health, Physical Education, Recreation, & Dance, Indianapolis.
- Ulrich, B.D. (1991, November). *Dynamic systems theory and motor development in normally developing and handicapped infants*. Invited seminar presented

to the Department of Exercise Science, University of South Carolina, Columbia, SC.

- Ulrich, B.D., Jensen, J.L., Thelen, E., Schneider, K., & Zernicke, R.F. (1991, June). *Control strategies for a stable movement pattern: Infant and adult treadmill steps*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Asilomar, CA.
- Ulrich, D.A., Ulrich, B.D., & Collier, D.H. (1991, June). *Alternating stepping patterns: Hidden abilities in 11-month-old infants with Down syndrome*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Asilomar, CA.
- Jensen, J.L., Ulrich, B.D., Thelen, E., Schneider, K., & Zernicke, R. (1991, June). *Posture-related limb dynamics in the spontaneous kicking of 3-month-old infants*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Asilomar, CA.
- Ulrich, B.D. & Ulrich, D.A. (1991, April). *Spontaneous movement: A key to the process of normal and delayed motor skill development*. In E. Goldfield (Chair), *Infant action and exploration*. Symposium conducted at the biennial meeting of the Society for Research in Child Development, Seattle.
- Jensen, J.L., Ulrich, B.D., Thelen, E., Schneider, K., and Zernicke, R.F. (1990, October). *Intersegmental dynamics of treadmill stepping in infants and adults*. Paper presented at the annual meeting of the Society for Neuroscience, St.Louis.
- Ulrich, B.D., & Jensen, J.L. (1990, September). *Qualitative dynamics and torque profiles of treadmill steps: Infants and adults*. Paper presented at the annual meeting of the Motor Development Research Consortium, Madison, WI.
- Ulrich, B.D. (1990, June). *Teaching basic motor and sport skills*. Invited presenter at PACE IV (Positive Approaches to Children's Education) Workshop. Indiana University, Bloomington, IN.
- Ulrich, B.D. & Ulrich, D.A. (1990, May). *Deviant motor development: Can dynamical systems theory provide an explanation?* In J. Whittall (Chair), *Developmental aspects of interlimb coordination*. Symposium conducted at the annual meeting of the North American Society for the Psychology of

Sport and Physical Activity, Houston, TX.

- Ulrich, B.D., Ulrich, D.A., & Collier, D. (1990, April). Motor development in Down syndrome infants: A new approach to understanding. In E. Goldfield (Chair), *A dynamical systems approach to atypical motor development during infancy*. Symposium conducted at the International Conference on Infant Studies, Montreal.
- Ulrich, D.A., Ulrich, B.D., & Collier, D. (1990, March). *A longitudinal study of treadmill stepping in infants with Down syndrome*. Paper presented at the annual meeting of the American Alliance for Health, Physical Education, Recreation, and Dance, New Orleans.
- Ulrich, B.D., Ulrich, D.A., & Collier, D.H. (1989, November). *Availability of a precursor to walking in Down syndrome infants*. Paper presented at the East Coast Clinical Gait Laboratories Conference, Bear Mountain, NY.
- Ulrich, B.D., Jensen, J.L., & Thelen, E. (1989, November). *Pattern of torque profiles in treadmill stepping in infants*. Paper presented at the East Coast Clinical Gait Laboratories Conference, Bear Mountain, NY.
- Ulrich, B.D. (1989, June). *Current perspectives in achievement motivation with application to sport participation and the young child*. Paper presented at the International Symposium on Adapted Physical Activity, West Berlin.
- Schneider, K., Zernicke, R.F., Jensen, J.L., Ulrich, B.D., & Thelen, E. (1989, June). *Posture-related modulations of limb dynamics during spontaneous kicking of infants*. Paper presented at the XII International Congress of Biomechanics, Los Angeles.
- Ulrich, B.D. (1989, April). *Organization of the contributions of muscular and nonmuscular torques during reaching in 7-month-old infants*. Invited seminar presented at the Neuromuscular Research Center, Boston University.
- Ulrich, B.D. (1989, April). *Young children's use of common and necessary characteristics to identify three sports*. Paper presented at the annual meeting of the American Alliance for Health, Physical Education, Recreation, and Dance, Boston.
- Jensen, J.L., Ulrich, B.D., Thelen, E., Schneider, K., & Zernicke, R.F. (1989,

April). *Limb dynamics of infant kicking in supine and vertical postures*. Paper presented at the biennial meeting of the Society for Research in Child Development, Kansas City, MO.

Ulrich, D.A., Ulrich, B.D., & Collier, D.H. (1989, March). *Treadmill stepping in infants with Down syndrome*. Paper presented at the Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities, Gatlinburg, TN.

Thelen, E. & Ulrich, B.D. (1988, November). *Cryptic development of locomotor coordination: Treadmill stepping in the first year*. Paper presented at the annual meeting of the International Society for Developmental Psychobiology, Toronto.

Jensen, J.L., Ulrich, B.D., Thelen, E., Schneider, K., & Zernicke, R.F. (1988, November). *Posture-related changes in lower-limb intersegmental dynamics in spontaneous kicking in 3-month-old infants*. Paper presented at the annual meeting of the Society for Neuroscience, Toronto.

Schneider, K., Zernicke, R.F., Ulrich, B.D., Jensen, J.L., & Thelen, E. (1988, November). *Control of lower-limb intersegmental dynamics during spontaneous kicking in 3-month-old infants*. Paper presented at the annual meeting of the Society for Neuroscience, Toronto.

Ulrich, B.D. & Ulrich, D.A. (1988, September). *Treadmill stepping in infants with Down syndrome*. Paper presented at the annual meeting of the Motor Development Research Consortium, Champaign, IL.

Ulrich, B.D., Ulrich, D.A., Benham, T., & Riggin, K.J. (1988, June). *Development and evaluation of a perceived competence scale for young children for use in sport settings*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Knoxville, TN.

Ulrich, B.D. (1988, June). *Developing motor skills in young children*. Invited presentation at the Northeast Conference on Physical Activity for Persons with Varying Abilities, Stowe, VT.

Ulrich, B.D. (1988, April). *Stepping during infancy*. Paper presented in K. Haywood (Chair), *The development of locomotor skills*. Symposium conducted at the annual meeting of the American Alliance for Health,

Physical Education, Recreation, and Dance, Kansas City, MO.

- Ulrich, B.D. (1988, March). Locomotor behavior and control in human neonates. Paper presented in J. Vilensky (Chair), *Neural control of locomotion in primates*. Symposium conducted at the annual meeting of the American Association of Physical Anthropologists, Kansas City, MO.
- Ulrich, B.D. & Cleland, F. (1987, September). *Interlimb coordination: Novice versus high level performers*. Paper presented at the annual meeting of the Motor Development Research Consortium, Bloomington, IN.
- Ulrich, B.D. (1987, June). *Teaching basic skills: Reaching the beginner and challenging the performer*. Invited presentation at the New Agenda II: A sporting chance for girls; National Conference, Indianapolis, IN.
- Ulrich, B.D., Thelen, E., & Niles, D. (1987, June). *Perceiving affordances: Action choices of infants and toddlers*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Vancouver, B.C.
- Ulrich, B.D., Thelen, E., & Niles, D. (1987, April). Interlimb dynamics: Ontogenetic and adaptive synergies for walking. Paper presented in E. Thelen (Chair), *Crawling and walking: New perspectives in motor development*. Symposium conducted at the meeting of the Society for Research in Child Development, Baltimore, MD.
- Thelen, E. & Ulrich, B.D. (1987, November). *Developmental origins of locomotor synergisms in human infants*. Paper presented at the annual meeting of the International Society for Developmental Psychobiology, New Orleans, LA.
- Ulrich, B.D. & Thelen, E. (1986, November). *Perceptual determinants of action: Stair-climbing choices of infants and toddlers*. Paper presented at the annual meeting of the International Society for Developmental Psychobiology, Annapolis, MD.
- Thelen, E., Ulrich, B.D., & Niles, D. (1986, November). *Bilateral coordination of stepping movements of 7-month-old human infants on a split-belt treadmill*. Paper presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
- Ulrich, B.D. (1986, June). The relationship between perceived motor competence

and demonstrated motor competence in young children. In M.R. Weiss (Chair), *Toward a developmental theory of children's motivation in sport*. Symposium conducted at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Scottsdale, AZ.

Ulrich, D.A., Ulrich, B.D., & Branta, C.F. (1986, June). *The generalizability of developmental sequences in selected fundamental motor skills*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Scottsdale, AZ.

Ulrich, B.D. (1986, April). *Traditional balance tasks: What research provides for the practitioner*. Paper presented at the annual meeting of the American Alliance for Health, Physical Education, Recreation, and Dance, Cincinnati, OH.

Ulrich, B.D. (1986, April). Human subjects as teaching tools. In J.E. Clark (Chair), *Teaching undergraduate motor development*. Workshop conducted at the annual meeting of the American Alliance for Health, Physical Education, Recreation, and Dance, Cincinnati, OH.

Ulrich, B.D. (1985, May). *The developmental relationship between perceived and actual competence in motor ability and the relationship of each to motivation to participate in sport*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Gulf Park, MS.

Ulrich, D.A. & Ulrich, B.D. (1985, May). *The effects of pretraining on the ability to detect gross motor movement errors*. Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Gulf Park, MS.

Ulrich, B.D. (1985, April). *Age and gender differences in motor ability/sport skill: Young participants and nonparticipants in organized sports*. Paper presented at the annual meeting of the American Alliance for Health, Physical Education, Recreation, and Dance, Atlanta, GA.

Ulrich, B.D. (1984, October). *The role of participation in organized sport in development of motor skills and motor abilities for young children*. Paper presented at the Mid-East Motor Development Meetings, Madison, WI.

Ulrich, B.D., Branta, C.F., & Yager, M. (1984, July). *Physiological and*

anatomical maturation of the central nervous system: Relationships to motor skill development during the preschool and elementary years. Paper presented at the Olympic Scientific Congress, Eugene, OR.

Branta, C.F., Ulrich, B.D., & Kiger, J. (1984, July). *Relationship of qualitative and quantitative motor performance during the preschool and elementary school years.* Paper presented at the Olympic Scientific Congress, Eugene, OR.

Ulrich, B.D. (1984, March). *Application of kinesiological methods for enhancing motor skill development in children.* Paper presented at the annual meeting of the American Alliance for Health, Physical Education, Recreation, and Dance, Anaheim, CA.

Haubenstricker, J., Branta, C., Ulrich, B., Brakora, L., & Lotfalian, A. (1984, February). *Quantitative and qualitative analysis of jumping behavior in young children.* Paper presented at the annual meeting of the Mid-West Association of the American Alliance for Health, Physical Education, Recreation, and Dance, Indianapolis, IN.

Ulrich, D.A. & Ulrich, B.D. (1983, August). *The Objectives-Based Motor Skill Assessment Instrument's sensitivity to instruction.* Paper presented at the annual meeting of the National Consortium on Physical Education and Recreation for the Handicapped, Denver, CO.

Ulrich, B.D. & Ulrich, D.A. (1983, May). *The role of balancing ability in performance of fundamental gross motor skills in preschool-age children.* Paper presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, East Lansing, MI.

Ulrich, B.D. & Ulrich, D.A. (1982, October). *Identifying children at risk: Motor development.* Paper presented at the Illinois Head Start Staff Development Conference, Carbondale, IL.

Fountain, C., Ulrich, B., Haubenstricker, J., Seefeldt, V. (1981, March). *Relationship of developmental stage and running velocity in children 2 ½ to 5 years of age.* Paper presented at the annual meeting of the Mid-West Association of the American Alliance for Health, Physical Education, Recreation, and Dance, Chicago, IL.

VIII. EDITORIAL RESPONSIBILITIES FOR JOURNALS & TEXTS

Editorial Board:

Research Quarterly for Exercise and Sport, 2003-2007 (Chair, 2006-07)

Section Editor:

Growth and Motor Development section of the *Research Quarterly for Exercise and Sport*, July 1993 - 1999.

Consulting Editor:

Journal of Motor Behavior

Reviewer:

Child Development

Motor Control

Research Quarterly for Exercise and Sport

Human Movement Science

Infancy

Archives of Physical Medicine and Rehabilitation

VIII. PROFESSIONAL and UNIVERSITY SERVICE

Scientific Committee, 15th International Conference on Perception-Action, Minneapolis, MN, July 2009

Member, Board of Directors, Aerostatic Sensations (Not-for-Profit, Tethered Hot-Air Balloon Rides for People with Physical Challenges), Metamora, MI, 2007-

Member, Program Planning Committee for the Motor Development area, 2007 annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego.

Member, External Review Committee, Department of Kinesiology, Arizona State University, November 2005.

Member of Scientific Committee, Motor Development and Learning in Infancy, II: Fundamental Concepts and Applications. 10-13th May 2005 Murcia, Spain (organizers: Geert Savelsbergh & Esther Thelen).

Member, External Review Committee, Department of Exercise Science at the University of Iowa, March 2004.

Member, External Review Committee, Undergraduate Program, Department of Kinesiology, University of Maryland, March 2003.

Member, External Review Committee, Graduate Program, Department of Kinesiology, University of Wisconsin, April 2003.

Member, Award Selection Committee, North American Society for the Psychology of Sport and Physical Activity, 2002-04.

Chair, Motor & Sensory Processes Review Panel of the Conference Program Committee for International Conference on Infant Studies, 2004.

Member, American Alliance for Health, Physical Education, Recreation, & Dance, Alliance Scholar Selection Committee, 2002

Member, Scientific Review Board, BRIGHT Foundation, **BR**ain Injury **G**roup-**H**ope thorough **T**reatment.

Member, Motor Behavior Review Committee, International Conference on Infant Studies, Toronto, Canada, April, 2002.

Member, University of Michigan Search Committees (Director, Center for Human Growth & Development, 2002-03; Director of Center on Autism, 2001; Director Center for Human Growth and Development, 2002; Athletic Director, 2000).

Member of Scientific Committee, First world congress, Motor Development and Learning in Infancy: Behavioural, Neurological and Modeling Issues. 31 May- 3 June 2001, Amsterdam, The Netherlands (organizers: Geert Savelsbergh & Esther Thelen).

Member of Review Panel, Motor and Sensorimotor Area, International Conference on Infant Studies, July 16-19, 2000, Brighton, England.

External reviewer for tenure and promotions dossiers (e.g., for: Penn State University, University of Minnesota, University of Illinois)

Member, Internal Advisory Committee for Dr. Betsy Lozoff's (PI and Director of the Center for Human Growth and Development, U of M) P01 on Brain and Behavior in Early Iron Deficiency, NIH-NICHD. (2001-2005)

Acting Director of the Multidisciplinary Training in Developmental Processes Grant (1997-98). NIH funded grant (Research Training Grant) designed to train pre- and postdoctoral researchers in multidisciplinary approaches to the process of change in behavior.

Chair, Membership Committee (1999-2000, member- 1998-2001), American Academy of Kinesiology and Physical Education.

Co-organizer of 1996 Annual Motor Development Research Consortium meetings, October 4-5th, Indiana University, Bloomington, IN. (Co-organizers: Drs. Dale Ulrich and Esther Thelen).

Invited participant in NIH funded Workshop on Fetal Behavioral Development. Organized by Dr. Norman Krasnegor, Chief, Human Learning and Behavior Branch of NICHD, June 13-14, 1996, Rockville, MD.

Appointed member (1996, 1997, 1998), IU- University Level, Tenure Advisory Committee.

Member, Department of Kinesiology, Indiana University- Graduate Advisory Committee (1996-97).

Elected member, HPER School Research Council, Indiana University, 1990-91 and 1992-93, 1996-97 (elected chairperson), 1997-98.

Chair/Member, Program Planning Committee for the Motor Development area, 1997 annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Denver, CO.

Appointed member, Kinesiology Department Search Committee for Structural Kinesiology/Biomechanics faculty position, 1996.

President [Past President] of the Motor Development Academy, of the American Alliance for Health, Physical Education, Recreation, and Dance, 1992-1993

[1993-1994].

Member, Program Planning Committee for the Motor Control/Motor Learning area, 1994 annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Clearwater, FL.

Member of Committee to Review Research Abstracts submitted to the Motor Development Area for the 1992 meeting of the International Society for Infant Studies.

Member of Committee to Review Research Abstracts submitted to the Research Consortium portion of the 1989, 1992-1994, American Alliance for Health, Physical Education, Recreation, and Dance conferences.

Member of the Conference Evaluation Committee, North American Society for the Psychology of Sport and Physical Activity, 1992.

Appointed to Doctoral Admissions Committee, Department of Kinesiology, Indiana University, 1994-1998.

Member Ad Hoc Committee to generate a proposal for creating Fellow Status within the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), 1991.

Member, Nominating Committee for NASPE (AAHPERD Association) officers, 1991-92.

Member, Program Planning Committee for the Motor Development area, 1987 [1989] annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Vancouver, B.C. [Houston, TX]

Member of Committee to Review Research Abstracts submitted to the Infancy Section for the 1989 Society for Research in Child Development conference.

Editor, Motor Development Academy Newsletter, an academy sponsored by NASPE and AAHPERD, 1988 - 1990.

Member, AAHPERD Conference Program Evaluation Committee, a committee of the Research Consortium, AAHPERD, 1988.

Member, New Fellows Committee of the Research Consortium, American

Alliance for Health, Physical Education, Recreation, and Dance, 1986 - 1989.

Chair, Program Planning Committee for the Motor Development area, 1988 annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Knoxville, TN.

Member, Program Planning Committee for the Motor Development area, 1987 [1989] annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Vancouver, B.C. [Houston, TX]

Co-organizer, Motor Development Research Consortium Meetings, Indiana University, September 1987 (with Dr. Esther Thelen).

Consultant on NICHD grant awarded to researchers (Dr. J.Eccles, principal investigator) at the Institute for Social Research, University of Michigan, January, 1987. Area: Development of perceived competence and measuring actual competence in the motor domain.

X. GRADUATE STUDENTS and POSTDOCTORAL RESEARCH ASSOCIATES

(since 1999, at the University of Michigan)

1. *Victoria Haehl, P.T., M.S., Ph.D. (2002)*
2. *Ugo Buzzi, M.S. (2004)*
3. *Chia-Lin Chang, P.T., MS, Ph.D. (2007)*
4. *Masayoshi Kubo, P.T., M.S., Ph.D., Postdoctoral R.A. (2002-2005)*
5. *Victoria Moerchen, P.T., Ph.D., Postdoctoral R.A. (2003-2003)*
6. *David Black, M.S., Ph.D., Postdoctoral R.A. (2005-2007)*
7. *Jill Heathcock, D.P.T., Ph.D., Postdoctoral R.A. (2006-2007)*
8. *Beth Smith, D.P.T., Ph.D. student (2005 - present)*
8. *Caroline Teulier, M.S., Ph.D., Postdoctoral R.A. (2006- 2008)*
9. *Genna Mulvey, M.S., Ph.D., Postdoctoral R.A. (2007- present)*

XI. PROFESSIONAL ORGANIZATIONS

1. Society for Research in Child Development
2. North American Society for the Psychology of Sport and Physical Activity
3. International Society for Infant Studies

4. American Alliance for Health, Physical Education, Recreation, and Dance
5. Active Fellow: American Academy of Kinesiology and Physical Education