

## **B.E. Maki et al: Articles not listed on PubMed**

### **Papers in peer-reviewed journals:**

1. Maki BE, Perry SD, Scovil CY, Peters AL, McKay SM, Lee TA, Corbeil C, Fernie GR, McIlroy WE. Interventions to promote more effective balance-recovery reactions in industrial settings: new perspectives on footwear and handrails. *Industrial Health* 2008; 46: 40-50.
2. Scovil CY, Corbeil P, Lee TA, McKay SM, Peters AL, Maki BE. A novel handrail cueing system to prevent falls in older adults. *Gerontechnology* 2007; 6(4): 224-229.
3. Maki BE, Perry SD, McIlroy WE. Efficacy of handrails in preventing stairway falls: a new experimental approach. *Safety Science* 1998; 28:189-206.
4. McIlroy WE, Maki BE. Influence of destabilization on the temporal characteristics of 'volitional' stepping. *Journal of Motor Behavior* 1996; 28:28-34.
5. Maki BE. Direction and vision dependence of postural responses in elderly "fallers" and "non-fallers". In: LaFont C et al. (Eds.), *Falls, Gait and Balance Disorders in the Elderly: From Successful Aging to Frailty, Facts Research and Intervention in Gerontology*; 9(Suppl). Springer, New York, 1996, pp. 37-50.

Note: Distributed in Europe as: Vellas B et al (Eds.), *Falls in the Elderly: From Successful Aging to Frailty, L'annee Gerontologique*; 9(Suppl). Serdi, Paris, 1995, pp. 83-96.

6. McIlroy WE, Maki BE. Adaptive changes to compensatory stepping responses. *Gait and Posture* 1995; 3:43-50.
7. Fernie GR, Maki BE. Research and development in assistive technology at the Centre for Studies in Aging in Toronto. *Technology and Disability* 1994; 3: 315-320.
8. Maki BE, Ostrovski G. Scaling of postural responses to transient and continuous perturbations. *Gait and Posture* 1993; 1:93-104.
9. Berg K, Williams JI, Wood-Dauphinee SL, Maki BE. Measuring balance in the elderly: validation of an instrument. *Canadian Journal of Public Health* 1992; 83 (Suppl 2): S7-S11.
10. Holliday PJ, Fernie GR, Maki BE, Lauzon, FS. Some bioengineering approaches to the falling problem. *Geriatric Medicine* 1985; 1: 161-164.
11. Maki BE, Bartlett SA, Fernie GR. Effect of stairway pitch on optimal handrail height. *Human Factors* 1985; 27: 355-359.
12. Maki BE, Bartlett SA, Fernie GR. Influence of stairway handrail height on the ability

to generate stabilizing forces and moments. *Human Factors* 1984; 26: 705-714.

13. Maki BE, Laszlo CA Mechanical hazards in clinical equipment. *Journal of Clinical Engineering* 1980; 5: 133-138.

### **Chapters in books:**

1. Cheng KC, Bateni H, Maki BE Reducing adverse effects of walkers on stability. In: Mihailidis A, Boger J, Kautz H, Normie L (Eds.). *Technology and Aging*. IOS Press, Amsterdam, 2008, pp. 197-204.
2. Scovil CY, Corbeil P, Lee TA, McKay SM, Peters AL, Maki BE A handrail cueing system to prevent falls. In: Mihailidis A, Boger J, Kautz H, Normie L (Eds.). *Technology and Aging*. IOS Press, Amsterdam, 2008, pp. 181-188.
3. Maki BE Postural strategies. In: Binder MD, Hirokawa N, Windhorst U (eds). *Encyclopedia of Neuroscience*. Springer, New York (in press).
4. Maki BE, McIlroy WE Change-in-support balance reactions in older persons: an emerging research area of clinical importance. In: Furman JM, Whitney SL (eds), *Neurological Clinics* 2005; 23: 751-783.
5. Maki BE, McIlroy WE Change-in-support balance reactions in older persons: an emerging research area of clinical importance. In: Furman JM, Whitney SL (eds), *Neurologic Clinics* 2005; 23: 751-783.
6. Maki BE, McIlroy WE Effects of aging on control of stability. In: Luxon L., Furman J, Martini A, Stephens D (Eds.), *Textbook of Audiological Medicine: Clinical Aspects of Hearing and Balance*. Martin Dunitz, London, 2003; Chapter 39, pp. 671-690.
7. Maki BE, McIlroy WE Postural control in the older adult. In: Studenski S. (Ed.), *Clinics in Geriatric Medicine: Gait and Balance Disorders*. W.B. Saunders, Philadelphia, 1996; 12(4):635-658.
8. Maki BE, Fernie GR Accidents: falls. In: Birren JE (Ed.), *Encyclopedia of Gerontology: Age, Aging and the Aged*. Academic Press, San Diego, 1996, Volume 1, pp. 11-18.
9. Black SE, Maki BE, Fernie GR Aging, imbalance and falls. In: Barber H, Sharpe J (Eds.), *Vestibulo-ocular Reflex, Nystagmus and Vertigo*. Raven Press, New York, 1993, pp. 317-335.
10. Maki BE, Cheng KC, Corbeil C, Fernie GR, Gorski S, King EC, Holliday PJ, Lee TA, Liu BA, Mansfield A, McIlroy WE, McKay SM, Mihailidis A, Perry SD, Peters AL, Popovic MR, Pratt J, Scovil CY and Tung JY. Interventions to prevent falls by promoting more effective balance-recovery reactions. In: Vincent ML, Moreau TM (eds), *Accidental Falls: Causes, Preventions and Interventions*. Nova

SciencePublishers. Hauppauge,. NY (in press)

### **Chapters in conference proceedings:**

1. Mansfield A, Peters AL, Liu BA, Maki BE Efficacy of perturbation-based balance training. Festival of International Conferences on Caregiving, Disability, Aging and Technology (FICCDAT): Advances in Neurorehabilitation, Toronto, Canada; June 2007.
2. Scovil CY, Corbeil P, Lee TA, Peters AL, Maki BE A handrail cueing system to prevent falls. Festival of International Conferences on Caregiving, Disability, Aging and Technology (FICCDAT): 2<sup>nd</sup> International Conference on Technology and Aging, Toronto, Canada; June 2007.
3. Cheng KC-C, Bateni H, Maki BE Reducing adverse effects of walkers on stability. Festival of International Conferences on Caregiving, Disability, Aging and Technology (FICCDAT): 2<sup>nd</sup> International Conference on Technology and Aging, Toronto, Canada; June 2007.
4. Tung JY, Gage WH, Zabjek K, Brooks D, Maki BE, Mihailidis A, Fernie GR, McIlroy WE iWalker: A 'real-world' mobility assessment tool. Festival of International Conferences on Caregiving, Disability, Aging and Technology (FICCDAT): 2<sup>nd</sup> International Conference on Technology and Aging, Toronto, Canada; June 2007.
5. Maki BE, Perry SD, Scovil CY, Mihailidis A, Fernie GR Getting a grip on stairs: research to optimize effectiveness of handrails. In: Pikaar RN, Koningsveld EAP, Settels PJM (eds), Proceedings IEA2006 Congress: Meeting Diversity in Ergonomics (Maastricht, The Netherlands). Elsevier, Amsterdam 2006, 4669-4674 (article #778).
6. Perry SD, McIlroy WE, Fernie GR, Maki BE Development and efficacy of a balance-enhancing insole: "SoleSensor". In: Pikaar RN, Koningsveld EAP, Settels PJM (eds), Proceedings IEA2006 Congress: Meeting Diversity in Ergonomics (Maastricht, The Netherlands). Elsevier, Amsterdam 2006, 4723-4728 (article #787).
7. Fernie GR, Holliday PJ, Maki BE Low-technology to assist people of all ages with disabilities. In: Proceedings of the International Conference on Aging, Disability and Independence, Washington, DC, 2003, pp. 396-409.
8. Maki BE, Edmondstone MA, Perry SD, Heung E, Quant S, McIlroy WE. Control of rapid limb movements for balance recovery: do age-related changes predict falling risk? In: Duysens J, Smits-Engelsman BCM, Kingma H, eds. Control of Posture and Gait (Proceedings of the Symposium of the International Society for Posture and Gait Research). Maastricht, Netherlands, 2001, pp 126-129.
9. Zettel JL, Maki BE, McIlroy WE. Can features of triggered stepping reactions be modulated to meet environmental constraints? In: Duysens J, Smits-Engelsman BCM,

Kingma H, eds. Control of Posture and Gait (Proceedings of the Symposium of the International Society for Posture and Gait Research). Maastricht, Netherlands, 2001, pp 503-506.

10. Maki BE, Norrie RG, Zecevic A, Quant S, Kirshenbaum N, Bateni H, McIlroy WE. Initiation and execution of rapid postural reactions and stepping movements: which phases require visuospatial attention? In: Duysens J, Smits-Engelsman BCM, Kingma H, eds. Control of Posture and Gait (Proceedings of the Symposium of the International Society for Posture and Gait Research). Maastricht, Netherlands, 2001, pp 573-576.

11. Maki BE, McIlroy WE, Perry SD Compensatory responses to multi-directional perturbations. In: Taguchi K, Igarashi M, Mori S (eds), Vestibular and Neural Front: Proceedings of the XIIth International Symposium on Posture and Gait, Matsumoto 3-7 May 1994. International Congress Series No. 1070, Elsevier, Amsterdam. pp 437-440.

12. McIlroy WE, Maki BE Compensatory arm movements evoked by transient perturbations of upright stance. In: Taguchi K, Igarashi M, Mori S (eds), Vestibular and Neural Front: Proceedings of the XIIth International Symposium on Posture and Gait, Matsumoto 3-7 May 1994. International Congress Series No. 1070, Elsevier, Amsterdam. pp 489-492.

13. Sinha T, Maki B Effect of lean on postural dynamics: identification of a posture control model. Proceedings of the 15th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. San Diego, October, 1993; 15:1179-80.

14. Maki BE, Whitelaw RS Influence of experience, expectation and arousal on posture control strategy and performance. In: Woollacott M, Horak F (eds), Posture and Gait: Control Mechanisms, 1992, Volume I: XIth International Symposium of the Society for Postural and Gait Research, Portland, May 24-27, 1992. University of Oregon Books, Eugene, Oregon. pp 123-126.

15. Maki BE, Holliday PJ, Topper AK Postural balance and prospective risk of falling in the elderly. In: Woollacott M, Horak F (eds), Posture and Gait: Control Mechanisms, 1992, Volume II: XIth International Symposium of the Society for Postural and Gait Research, Portland, May 24-27, 1992. University of Oregon Books, Eugene, Oregon. pp 291-294.

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17. Maki BE, Holliday PJ, Topper AK Does fear of falling influence postural performance in the elderly? In: Brandt T, Paulus W, Bles W, Dieterich M, Krafczyk

S, Straube A (eds), Disorders of Posture and Gait, 1990: Xth International Symposium of the Society for Postural and Gait Research, Munich, September 2-6, 1990. Georg Thieme Verlag Stuttgart, New York. pp 316-320.

18. Rosen MJ, Maki BE, Simon SR, Adelstein BD Modification of spastic gait through mechanical damping. International Federation of Automatic Control, Symposium on Control Aspects of Prosthetics and Orthotics. Columbus, Ohio. May, 1982.

Note: To obtain a reprint of any of the articles listed above, please contact Rachel Keshwah by email (rkeshwah@sri.utoronto.ca), phone (416-480-5858) or FAX (416-480-5856).

### **Theses and technical reports:**

1. Maki BE A Posture Control Model and Balance Test for the Prediction of Relative Postural Stability. Ph.D. Thesis, Bioengineering Unit, University of Strathclyde, Glasgow, Scotland, 1987.

2. Maki BE Influence of Handrail Shape, Size and Surface Texture on the Ability of Young and Elderly Users to Generate Stabilizing Forces and Moments. Technical Report #29401 (prepared under contract #OSR84-00197), National Research Council of Canada, March, 1985.

3. Maki BE Influence of Handrail Height and Stairway Slope on the Ability of Young and Elderly Users to Generate Stabilizing Forces and Moments. Technical report #29400 (prepared under contract #OSX83-00175), National Research Council of Canada, March, 1984.

4. Maki BE, Fernie GR Biomechanical Assessment of Handrail Parameters, with Special Consideration to the Needs of Elderly Users. Technical report #29399 (prepared under contract #OSX82-00180), National Research Council of Canada, May, 1983.

5. Maki BE Modification of Spastic Gait through Mechanical Damping. S.M.M.E. Thesis, Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, 1982.

Note: To obtain a PDF version of the theses or technical reports listed above, please contact Carmen Ho by email (carmenho@sri.utoronto.ca), phone (416-480-5858) or FAX (416-480-5856).

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Carmen Ho  
Centre for Studies in Aging  
Sunnybrook and Women's Health Sciences Centre  
2075 Bayview Avenue  
U-wing (SCIL) basement  
Toronto, Ontario, Canada M4N 3M5

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