Curriculum Vita

Name: Mary Ellen Buning, PhD, OTR/L, ATP

Present Position:

Assistant Professor, University of Louisville, School of Medicine, Department of Neurological Surgery. Director, Assistive Technology Resource Center, Frazier Rehabilitation Institute. 220 Abraham Flexner Way, 1112, Louisville, KY 40202

Phone: 502.407.3272 Fax: 502.582.7403 E-mail: mary.buning@jhsmh.org

Education:

1997-2001 Doctor of Philosophy in Rehabilitation Science, School of Health and Rehabilitation

Sciences, University of Pittsburgh. Dissertation title: Wheelchair decision-making by

consumers and the effect of WheelchairNet.org.

1993-97 Doctoral Studies, Vocational Education Special Needs, School of Occupational and

Educational Studies, Colorado State University, Fort Collins, CO, 80523.

Master of Science in Occupational Therapy, Colorado State University, Fort Collins, CO,

80523.

1972 Bachelor of Science in Occupational Therapy, University of Florida, Gainesville, FL,

32611.

Professional Experience:

3/2005-5/2008 Assistant professor, School of Medicine, Department of Physical Medicine and Rehabilitation, Assistive Technology Partners, Denver CO.

Teaching: Coordinated CLSC 6271 Practica (applied research, clinical experience and research project development) within OSERS Grant (CFDA84.325A) for Preparation of Special Education, Related Services and Early Intervention to Serve Infants, Toddlers and Children and Youth with Low Incidence Disability. Guest lectures: Postural Support and Ergonomics, User Interface and Adaptive Access Methods, Electronic Aids to Daily Living, Wheeled Mobility, and Alternative Computer Access. Developed and coordinated ED352 Instructional Technology, a 4-week summer intensive course for educators at Western State College, Department of Education, Gunnison, CO

Clinical Service: Provided direct assistive technology evaluation and follow-up services in the areas of user interface for power wheelchair and augmentative and alternative communication (AAC) devices, seating and wheeled mobility, alternative computer access, ergonomics and electronic aids to daily living. Collaborated in the refinement of the clinic's processes, procedures and documentation.

Scholarship: Developed a pilot project for testing the efficacy of an AT outcomes database designed to integrate ICF codes, ICD diagnostic labels and ISO standards for AT with clinic documentation and AT outcome tools. Coordinated knowledge translation for the RERC on Wheelchair Transportation Safety (WTS) in partnership with the University of Michigan Transportation Research Institute. Principle Investigator for research task P5: Assessing the Impact of WC19 Wheelchairs on the Transportation Safety of Wheelchair-Seated Students. Wrote four book chapters on assistive technology for texts on rehabilitation engineering, physical medicine and rehabilitation and occupational therapy. Coordinated usability testing of product prototypes for NIDRR Phase I and II SBIRs for AT devices developed by Steve Sutter, CreateAbility Concepts, Inc. Co-edited Industry Profile: Wheeled Mobility with Stephen Bauer, PhD, Director of

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the RERC on Technology Transfer at SUNY Buffalo, Department of Occupational Therapy.

2001-2005

Assistant Professor, Department of Rehabilitation Science and Technology, School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh PA 15260.

Teaching: HRS2704-Fundamentals of Rehabilitation Engineering and Assistive Technology and HRS2705-Rehabilitation Engineering and Assistive Technology Practices. Developed and coordinated HRS2921-Clinical Internship in Assistive Technology (AT) for clinicians, engineers and rehabilitation counselors. Developed 24 new placements to date. Teaching AT content as Core faculty for Rehabilitation Counseling Masters program.

Clinical Service: Providing clinical evaluation services in the UPMC Center for Assistive Technology in the areas of seating & wheeled mobility, adaptive computer access, home and workplace modifications. Liaison with Pittsburgh Office of Vocational Rehabilitation for referrals from Center for Assistive and Rehabilitation Technology at Hiram G. Andrews Center, Johnstown, PA. Participating in development of relationships with community-based service delivery organizations. Serving as Auxiliary Faculty at UCLID (University, Community Leaders & Individuals with Disability) – the University of Pittsburgh's University Center on Disability program. Member, Board of Directors United Cerebral Palsy, Allegheny County. Serve on Ad Hoc Committee to the Board of Directors on Accessibility, American Occupational Therapy Association

Research: Serving as chair (2) and committee member (7) for graduate students in RST, Rehab Counseling and BioEngineering. Coordinating education and dissemination for the RERC on WTS. Guiding student research on use of wheelchairs as seats in motor vehicles. Continued website development for WheelchairNet, WTS, and VAwheelchairInfo.

1997-2001

Research Associate, Department of Rehabilitation Science and Technology, University of Pittsburgh with the Rehabilitation Engineering Research Center on Wheeled Mobility. Developed WheelchairNet http://www.wheelchairnet.org as a model of Internet-based dissemination and virtual community. Other projects include: VAwheelchairINFO, a wheeled mobility technology website for veterans and VA service providers; Task group for creating *Active Learning in the Information Age: A Transformation Plan for the School of Health and Rehabilitation Sciences; multiple guest lecturers in Fundamentals of Assistive Technology, Application of Assistive Technology (Adaptive Computer Access), and Psychology and sociology of Disability; and listserver maintenance in support of research tasks and international standards organizations activities.

1998-1999

Adjunct Faculty. Department of Occupational Therapy. University of Pittsburgh. Taught OT1005 Administration and Supervision and OT 1509 Neuromuscular & Skeletal Disorders.

1994-1997

Owner, Assistive Technology Consulting, a Colorado private practice providing direct OT services specializing in AT for clients of all ages and disabilities. Consultation and staff development to organizations seeking to improve or create AT services.

1993-1994

Project Manager, State Department of Education Grant entitled "Parent to Parent Assistive Technology Network." This 1-year project introduced parents of infants and toddlers with disabilities to the opportunities for increased participation and choice making through AT. Conducted monthly training and in-home consultations, loaned technology and supported families to teach other families.

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- Occupational Therapist, Poudre School District R-1, Fort Collins, CO, 80521. Part time, 8-month position providing direct and consultative services to 4 preschool classrooms plus K-6 students at McGraw Elementary. Also, provided AT evaluation and consultation for itinerant caseload through the State-Wide Alternative, Augmentative and Assistive Communication (SWAAAC) Team
- Full-time Graduate Research Assistant, Department of Occupational Therapy. Provided AT services at AccessAbility Resource Center, The Children's Hospital, Denver, CO. Won a grant to develop a Local Resource Team for AT, served as full-time coordinator and developed community-based, consumer-driven service to fund/provide AT devices and services and increase public awareness. Member of advisory board of Colorado AT Project. Started an AT Resource Center for the OT Department and developed IBM gift of networked AT Computer Lab. University task force to create access to university microcomputers for students with disabilities. Conducted efficacy research on AT and visual impairment.
- Occupational Therapist, Prince George County Public Schools, Upper Marlboro, MD. Served as OT on PGCPS AT Team. Managed itinerant caseload of students with direct and consultative services, to implement IEP goals in academic and functional curriculums. Designed educational staff in-services, coordinated evaluation and revision of service delivery models in multi-handicapped and junior high settings.
- 1983-84 Part-time contract Occupational Therapist, consecutively for:

 American Occupational Therapy Association Inc., Rockville, MD. Solicited data, researched, wrote and edited material for an association published manual entitled "Acute Care Service Delivery."

Resurrection Child Center, Alexandria, VA. Evaluated and treated autistic and emotionally disabled children, staff sensory integration summer day camp.

Lt. Joseph P. Kennedy, Jr. Institute, Washington, DC. Evaluated and established IEP goals for developmentally disabled students.

- 1976-83 Professional leave of absence. Cross-country moves with maternal, home management and multiple volunteer activities.
- 1975-76 Director of Occupational Therapy, Friends Hospital, Philadelphia, PA. Developed functional programs. Assisted with direction of Adjunctive Therapy Department.

 Managed OT staff, budget and treatment program. Coordinated clinical education as adjunct clinical faculty of Temple University.
- Staff Therapist, Friends Hospital, Philadelphia, PA. Evaluated and treated adult and geriatric inpatients with chronic and acute mental illnesses in a variety of functional skills programs.

Honors and Grants:

- A SHADES of Genius Award, honoring an outstanding individual with disability for using professional skills to serve others with disabilities. Student Health Advocates for Diversity, Education and Service at Metropolitan State College of Denver. April 11.
- 2006 RESNA Service Award for chairing the Professional Specialty Group 3: Occupational Therapists.
- Service Award for service on the AOTA ad hoc committee for Access and Inclusion, American Occupational Therapy Association.
- Distinguished Teaching Award, Department of Rehabilitation Science & Technology.

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1997-1999	Fellowship for Doctoral Studies supported by National Institute of Disability and Rehabilitation Research (NIDRR). School of Health and Rehabilitation Sciences, University of Pittsburgh.
1998	Credentialed as Assistive Technology Practitioner (ATP) by RESNA (The Rehabilitation Engineering and Assistive Technology Society of North America).
1997	Service Award for 3-years service on Technology Special Interest Section, American Occupational Therapy Association.
1992	Helen F. McHugh Graduate Award, College of Applied Human Sciences, May.
1991	Outstanding graduate woman, Office of Women's Programs and Studies, Colorado State University.
1990	Scholarship, Faculty Grant-writing Workshop, College of Applied Human Sciences, Colorado State University, Pingree Park, CO.
1989	Grant to pursue post-professional MSOT, funded by Maternal and Child Health Grant, Leadership in Occupational Therapy, Colorado State University, Fort Collins, CO.

Publications:

- Buning, M.E. Chapter 62: Assistive Technology: Technology to Enable Activity and Participation. (2008). In M. Neistadt, E. Crepeau, E. Cohn, & B. Schell (Eds.) *Willard & Spackmans's Occupational Therapy (11th Edition)*. Baltimore: Lippincott, Williams & Wilkins.
- Buning, M.E., Getchell, C.A., Bertocci, G.E. & Fitzgerald, S.G. (2007). Riding a bus while seated in a wheelchair: A pilot study of attitudes and behavior regarding safety practices. *Assistive Technology*. 19(2) 38-52.
- Buning, M.E. (2007). Chapter 19: High-Technology Adaptations to Compensate for Disability. In C. Trombly & M. Radomsky (Eds.) *Occupational Therapy for Physical Dysfunction, 6th Edition*. Baltimore: Williams & Wilkins.
- Buning, M.E. & Rice, I. (2007). Chapter 18: Adaptive Sport and Recreation Technology. In R. Cooper, D. Hobson & H. Ohnabe (Eds.) *Introduction to Rehabilitation Engineering*. Philadelphia: Institute of Physics Publishing.
- Bodine, C. & Buning, M.E. Computer Assistive Devices and Environmental Controls. (2006). In R. Braddom & D. Matthews (Eds.) *Handbook of physical medicine and rehabilitation*. London: Elsevier.
- Karg, P.E. & Buning M.E. (Eds.) (2005) State of the Science in Wheelchair Transportation Safety Final Report. Pittsburgh, PA: *RERC on Wheelchair Transportation Safety*. Web publication at: http://www.rercwts.pitt.edu/RERC WTS2 KT/RERC WTS2 KT SOS/RERC WTS2 SoS.html
- Schneider, L.W., Manary, M.M. & Buning, M.E. (2005). Theme 1: Barriers to the development, marketing, purchase and proper use of transit-safety technologies. Pittsburgh, PA: *RERC on Wheelchair Transportation Safety*. Web publication at: http://www.rercwts.pitt.edu/RERC_WTS_SOS/RERC_WTS_SOS_pdf/SOS_Final_T1.pdf.
- Fuhrman, S.I., Buning, M.E., & Karg, P. (2005). Prescription patterns of secondary postural support devices and concerns related to their use during vehicle transportation. *The Proceedings of the 2005 Annual RESNA Conference*. Atlanta, GA.
- Buning, M.E., Angelo, J.A. & Schmeler, M.G. (2004). Transitioning to power: The effect on occupational performance. *Rehab & Community Care Medicine*. 13(3) 12-14.
- Armstrong, C.A. & Buning, M.E. (2004). Real-world wheelchair transportation safety: A study of wheelchair user attitudes, knowledge, and behavior when riding fixed-route transportation. *The Proceedings of the 2004 Annual RESNA Conference*. Atlanta, GA.

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- Koontz, A., Ambrosio, F., Souza, A.L., Buning, M.E., Arva, J., & Cooper, R.A. (2004). Chapter 21: Strength and Disability. In Kumar, S. (Ed.) *Muscle Strength*. (pp. 485-517) Boca Raton: CRC Press.
- Buning, M. E. & Schmeler, M. R. (2003). Chapter 34, Sec. 2: Manual Wheelchair Seating & Mobility. In M. Neistadt, E. Crepeau, E. Cohn, & B. Schell (Eds.) *Willard & Spackmans's Occupational Therapy (10th Edition)*. Baltimore: Lippincott, Williams & Wilkins.
- Buning, M.E. (2002). Using the WWW to study the experiences of persons who use wheelchairs: local area versus distant participants. *The Proceedings of the 2002 Annual RESNA Conference*. Minneapolis, MN.
- Mills, T., Holm, M.B., Schmeler, M.R., Trefler, E., Fitzgerald, S.G., Boninger, M., Buning, M.E., & Shapcott, N. (2002) The functional evaluation in a wheelchair (FEW) instrument: Test-retest reliability and cross-validation with consumer goals. *The Proceedings of the 2002 Annual RESNA Conference*. Minneapolis, MN.
- Angelo, J. & Buning, M.E. (2002). Chapter 17: High technology adaptations to overcome disability. In C. Trombly & M. Radomsky (Eds.) *Occupational Therapy for Physical Dysfunction, 5th Edition*. Baltimore: Williams & Wilkins.
- Buning, M.E. & Wang, J. (2001). A model for developing and prescribing assistive technology devices. The Proceedings of the 3rd National Conference in Rehabilitation Medicine. Beijing, China 357-358.
- Buning, M.E. (2001). WheelchairNet: A comprehensive online resource. OT Practice. 6(19) 16-19.
- Buning, M.E. (2001). The development of validity and test-retest reliability for the measuring the effect of WheelchairNet on decision-making by consumers. *The Proceedings of the 2001 Annual RESNA Conference*. Reno, NV 260-62.
- Buning, M.E. (2001). What consumers contribute to wheelchair selection: The results of a study. *The Proceedings of the 16th International Seating Symposium*. Orlando, FL. 171-73.
- Buning, M.E., Schmeler, M.R. & Angelo, J. (2001). Occupational performance and the transition to powered mobility: A Pilot Study. *American Journal of Occupational Therapy*. 55 (4), 339-344.
- Buning, M.E. & Hobson, D.A. (2000). WheelchairNet: a virtual community focused on Wheeled Mobility. *The Proceedings of the 2000 Annual RESNA Conference*. Long Beach, CA, 270-72.
- Buning, M.E. (2000) WheelchairNet: A virtual community focused on wheeled mobility. The *Proceedings of the 16th International Seating Symposium*. Vancouver, BC. 288-290.
- Buning, M.E. (1999). Physical Activity and fitness for persons with disabilities: A call to action by an occupational therapist. *OT Practice*. 4 (8) 26-31.
- Buning, M.E. & Schmeler, M.R. (1999). Effects of the transition to powered mobility on occupational performance. *The Proceedings of the 1999 Annual RESNA Conference*. Minneapolis, MN 198-200.
- Buning, M.E., et al. (1998). The use of general information and AT within the OT practice. *American Journal of Occupational Therapy*. 52(10): 870-1.
- Hatzakis, M. & Buning, M.E. (1998). The "New Agora" for the disabled. The PM&R Resident. 7 (3), 3-5.
- Angelo, J., Buning, M.E., Schmeler, M. & Doster, S. (1997). Identifying the best practice in occupational therapy assistive technology evaluation: An analysis of three focus groups. *American Journal of Occupational Therapy*. 51, 916-920.
- Buning, M.E. (1996). Recreation and play technologies. In J. Hammel (Ed.) *Technology and Occupational Therapy: A link to function*. (Chapter 8) Washington DC: American Occupational Therapy Association.

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Buning, M.E., and Hanzlik, J.R. (1993). Adaptive computer use for a person with visual impairment. *American Journal of Occupational Therapy*, 47, 998-1008.

Research Interests:

- AT as an enabler of human occupation and societal participation.
- Evaluating the quality and the efficacy of AT interventions.
- Telecommunications and the WWW in consumer education and rural rehabilitation service delivery.

Selected Presentations:

Selected Frese	tutto is.
Feb 2008	"Providing safe transportation for elderly and disabled wheelchair-seated travelers." Presentation with Miriam Manary, MSME in the Transportation Track at the International Conference on Aging, Disability and Independence. February 21. St. Petersburg, FL.
June 2007	"Clinical update on Wheelchair Transportation Safety: The wheelchair, the seating and the secondary postural supports." Workshop presentation with Patricia Karg, MSME and Sue Fuhrman, ME at the Annual RESNA Conference, June 18, Phoenix, AZ.
March 2007	"When a wheelchair is also a seat in a Motor Vehicle." Instructional Course at the International Seating Symposium, March 9, Orlando, FL.
July 2006	"Wheelchair Transportation Safety: Using a Wheelchair as a Seat in a Motor Vehicle" Presentation in the Transportation Track at the International Conference on Aging, Disability and Independence. February 4, 2006. St. Petersburg, FL.
June 2006	"Wheelchair Transportation Safety." Instructional Course with Miriam Manary, MSME at the Annual RESNA Conference, June 23, Atlanta, GA.
August 2005	"Wheelchair Transportation Safety: Integrating it into Practice." Invited presenter at the National Registry of Rehabilitation Technology Suppliers Annual Conference. August 13, 2005. St. Louis, MO.
June 2005	"Wheelchair Transportation Safety." Instructional Course with Gina Bertocci, PhD at the Annual RESNA Conference, June 23, Atlanta, GA.
June 2004	"Wheelchair Transportation Safety." Instructional Course 23 at the Annual RESNA Conference, June 19, Orlando, FL.
Oct 2003	"Using a wheelchair as a seat in a motor vehicle." Pennsylvania OT Association Conference with L. vanRoosmalen & D. Ha, Oct. 3, Pittsburgh, PA.
June 2002	Invited faculty. "Software to support Reading and Writing." The Assistive Technology for Cognitive Disabilities seminar, June 6-7, University of Pittsburgh.
July 2001	Invited speaker. "The WWW as a window to the world of seating and wheeled mobility. The American Kinesiotherapy Association Conference, July 29, Virginia Beach, VA.
Oct 2000	"WheelchairNet.org: Your resource for clients who use wheelchairs." Pennsylvania OT Association Conference. Pittsburgh, PA.
Mar 2000	Invited speaker. "Seating and positioning for AAC clinicians" for Janice Light, PhD's advanced seminar in AAC technologies in Department of Communication Disorders, Penn State University
Apr 1999	"An AAC device as a computer keyboard: More bang for the buck," The American Occupational Therapy Association Conference Technology Lab, April 18, 1999, Indianapolis, IN.

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Mar 1999 Angelo, J. A, & Buning, M. E. "Introduction to Assistive Technology" to the medical students in the Disabilities Studies Certificate program and Dr. Heidi Feldman, University of Pittsburgh School of Medicine. June 1998 "Researching AT on the WWW," The Colorado Department of Education's SWAAC summer training for assistive technology teams in June 1998, Copper Mountain, CO. Oct 1996 "Occupational Therapists: Travelers on the Information Superhighway," AOTA Practice Conference, St. Louis, MO. "Assistive Technology for Parents," Resource Fair, Foothills Gateway Center, Fort Apr 1996 Collins, CO. Oct 1995 "You can be an author on the World Wide Web," Closing the Gap Conference, Minneapolis, MN. Apr 1995 "Rocky Mountain High--Adaptive Skiing in the Rockies," Technology Lab, AOTA Conference, Denver, CO. Apr 1994 "Assistive Technology to Increase Participation and Interaction in Families with Young Children," 10 workshop series, Parent to Parent Assistive Technology Network Grant, Northeast Colorado Parent Center, Fort Collins, CO. May 1995 Partnerships in Networked Health Information. Invited Presentation: "Technology for the People: Health Information and Community Networks." The Annenberg Center, Rancho Mirage, CA Sponsored by the US Public Health Service. June 1993 "Access to Print through Optical Character Recognition," Technology Lab, AOTA Conference, Cincinnati, OH. Feb 1993 "Writing on the Macintosh: Less pain, more gain for students with learning disabilities," at "Connections'93," Poudre School District R-1 Special Education Conference, Fort Collins, CO. Aug 1992 "Assistive Technology: a Resource for Adapting Vocational Education," Vocational Educators Leadership Conference, Colorado Community College and Occupational Education System, Fort Collins, CO. "Assistive Technology: Making Learning Accessible to All," Best Practices for Effective Jan 1992 Education, Rocky Mountain Resource and Training Institute, Fort Collins, CO. "Assistive Technology Resources," Connections '91, Poudre R-1 Special Education Mar 1991 Conference, Fort Collins, CO. Apr 1990 "Assistive Technology across Environments and Daily Living Skills," "Evaluation for Assistive Technology," "Review of Software for Switch Training and Word Processing" Lectures for graduate and undergraduate Occupational Therapy Students, Colorado State University, Fort Collins, CO.

Volunteer Activities:

2007	Ad Hoc Committee for the Commission on Continuing Competence and Professional Development to explore the feasibility of developing AOTA specialty certification in Wheelchair Seating & Mobility.
2007	Coordinating chair of 7 Professional Specialty Groups within RESNA, the Rehabilitation Engineering and Assistive Technology Society of North America.
2006-7	Coordinate peer review for submissions to the Annual RESNA Conference Proceedings.
2004-7	ANSI/RESNA Subcommittee on Wheelchairs and Transportation, Chair of Breakout Group on Implementation: Education and Training.
2005-6	Review NIH grants for the Musculo-Skeletal Study Group, Washington, DC

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2004-5	Board of Directors, UCP Allegheny County, Technology committee. Resigned due to move to Colorado.
2003-4	Ad Hoc Committee on Access and Inclusion to the Board of Directors of the American Occupational Therapy Association. Produced recommendations on accessibility of facilities, annual conference, website, and publications.
2002-4	Adaptive snow skiing instructor. Hope Network at Hidden Valley Ski Resort. January 21-22.
2001	NIDRR Grant Reviewer, Washington, DC September 11-14.
1999	Judge in Health Awards Competition for health-related websites at: (http://www.healthawards.com/). April.
1999	Peer support training, Amputee Coalition of America. A project of the National Limb Loss Information Center, Knoxville, TN.
1999-2001	Advisory Board member. The RERC on Wheeled Mobility. University of Pittsburgh.
1998	Coordinated the activities of the NIDRR Fellows and development of the "Leaders and Legends" Lecture Series.
1997	Consulted with Colorado OT Association regarding the benefits of using Listserves and WWW to support networking and in a state association with significant rural and travel distance issues.
1989-97	Advisory Board of the Colorado Assistive Technology Project, Rocky Mountain Resource and Training Institute, Denver, CO.
1992-97	FortNet: Fort Collins Community Computer Network, Chair of the Board of Directors, Chair Executive Committee, and founding board member. Notable projects: developed a community webserver to support civic action at http://www.fortnet.org/ , developed ServiceNet, an Internet-based Information and Referral Network for Larimer County Human Service Agencies; coordinated technical volunteers; developed a database of community clubs and organizations; developed and coordinated the first Annual Community Internet Festival, January 1997.
1994-98	American Occupational Therapy Association, Technology Special Interest Section (SIS). Standing Committee member responsible for communication with state OT associations. Notable projects: piloted listserves to demonstrate their efficacy for professional communication and peer support, trained liaisons from other SIS to use listserves; and researched best practice of AT and effect of wheelchair type on occupational performance. Member representative to the Internet Advisory Committee during formative phases of AOTA's website.

Professional Affiliations:

American Occupational Therapy Association, Bethesda, MD, Registered OT. Special Interest Sections: Technology. Certified National Board for Certification of Occupational Therapy. Occupational Therapy Association of Colorado, member.

Kentucky Board of Licensure for Occupational Therapy, professional licensure.

RESNA: Rehabilitation Engineering and Assistive Technology Society of North America, member since 1991. Certified Assistive Technology Practitioner, June 1998. Special Interest Groups (SIGs): Computer Applications, Wheeled Mobility & Seating, Service Delivery & Public Policy. Coordinating Chair, All Professional Service Groups (PSGs): Suppliers & Manufacturers, OT, PT, Rehabilitation Engineers SLPs, Orthotics & Prosthetics, and Education. Member, Board of Directors.

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