
BIOGRAPHICAL SKETCH

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NAME Dianne M. Goodwin, MEBME ATP	POSITION TITLE President/Director of Research and Development		
eRA COMMONS USER NAME DGOODWINPI			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Mankato State University, Mankato, MN	BS	1976	Biology/Recreation, with Resource Mgmt. focus
University of Virginia, Charlottesville, VA	MS	1987	Biomedical Engineering, Rehab Engineering focus

A. Positions and Honors

Positions

1977-1978 Naturalist, City of Fridley, Fridley, MN
1978-1979 Drafter, Tonka Toys, Minnetonka, MN
1979-1984 Outdoor Recreation Specialist, Special Populations Division, Patuxent River Park, MD
1984-1987 Research Assistant, Rehabilitation Engineering Apprentice, RERC on Seating and Wheeled Mobility, University of Virginia, Charlottesville, VA
1986-1987 Intern, Beneficial Designs, Santa Cruz, CA
1987-1990 Rehabilitation Engineer, Gillette Children's Hospital, St. Paul, MN
1987-1990 Rehabilitation Engineer/Co-founder, Tamarack Habilitation Technologies, St. Paul, MN
1993-1998 Product Design Engineer/Project Manager, AbleNet, Inc., Minneapolis, MN
1997-present Director of R&D/President/Founder, Blue Sky Designs, Inc., Minneapolis, MN

Honors

1987 RESNA/Easter Seal Society student design competition winner
1998 RESNA-certified Assistive Technology Practitioner
2002 Minnesota Project Innovation's Dillon Persistence Award
2002 Best New Product, Minnesota Inventor's Network, Garden Rocker
2003 Oasis Balance Award for Entrepreneurial Women
2005 Editor's Choice, Camping Life, Freedom tent
2006 Editor's Pick, Active Living Magazine, Freedom tent
2006 DaVinci Award, MS Society/Ford Motor Company, Freedom tent

Board and Professional Activities

1991-1995 Minnesota Assistive Technology Consortium, Co-Founder, President, Newsletter Committee
2000-2002 Courage Center, Assistive Technology Advisory Board
2000-2004 Projects with Industry, MN Department of Jobs and Training, Business Advisory Committee
2006-2008 Chair, RESNA Technology Transfer SIG (Vice Chair 2004-2006)
2006-2009 AccessAbility, Inc., Board Member, Program Committee member
2006-2010 RESNA Board of Directors, Executive Committee/Secretary (2008-2010)
2008-pres RESNA AAC Special Interest Group, Mounting Issues Working Committee member

Selected Presentations

1988, 1990 Panelist/Instructor, RESNA, Managing a Rehab Technology Practice
1992 Panelist, RESNA, Incorporating Consumer Input in Assistive Technology Design
1995 CSUN, Making Mountains into Molehills: Breaking the Barriers for Adults using AT

- 1997 Panelist, RESNA, The Changing Role of Rehab Engineers
- 2003 Panelist, RESNA, Integrating Universal Design into the Product Development Process
- 2003 Instructor, RESNA, Designing and Commercializing Universally Accessible Products
- 2006 Keynote, State of the Science Conference on Recreational Technologies for People with Disabilities, Universal Design and the Development of Accessible Recreation Products
- 2007 Speaker, AAATE, Independently accessible mounting and positioning technology
- 2007 Presenter, RESNA, Usability Testing of Repositionable and Customizable Mounts with Rehabilitation Professionals
- 2008 Presenter, RESNA, Independently-operable mounting and positioning technology
- 2010 Assistant instructor, AOTA, Assistive Technology for OTs (mounting section)
- 2010 Assistant Workshop Instructor, RESNA, Mounting for AAC

B. Selected Peer-Reviewed Publications

1. **Goodwin, D.M.** 1987. A custom wheelchair which allows for leg-assisted propulsion. Proc RESNA '87 Ann Conf, pp. 489-491, San Jose, CA: RESNA Press.
2. **Goodwin, D.M.** 1987. Mobility for people of short stature: two case studies. Proc RESNA '87 Ann Conf pp. 556-558, San Jose, CA: RESNA Press.
3. **Goodwin, D.M.**, Rovig, S.R. 1990. Modifying office chairs for people with special needs. Proc RESNA '90 Ann Conf, pp. 397-398. Washington, D.C.: RESNA Press.
4. Friel, D., Tew, B., Hegfors, L., Rovig, S.R., **Goodwin, D.M.** 1990. Incorporating multiple assistive devices into a cohesive system. Proc RESNA '90 Ann Conf, pp. 352-353. Washington, D.C.: RESNA Press.
5. **Goodwin, D. M.** 1995. Adults with severe/profound disabilities-issues and trends in technology use in day programs and residential facilities. Proc RESNA '95 Ann Conf, pp. 618-619. Vancouver, B.C.: RESNA Press.
6. **Goodwin, D. M.**, Rovig, S. M. 2003. Development and commercialization of an ergonomic garden seat. Proc RESNA 2003 Ann Conf, Washington, D.C.: RESNA Press.
7. **Goodwin, D. M.**, Rovig, S.M., Kinney, K.B. 2003. Improving tent and vestibule accessibility through universal design and consumer input. Proc RESNA 2003 Ann Conf, Washington, D.C.: RESNA Press.
8. **Goodwin, D. M.**, Rovig, S.M., Kinney, K.B., Peterson, R.J. 2004. Development, field testing, and commercialization of accessible tents. Proc RESNA 2004 Ann Conf, Washington, D.C.: RESNA Press.
9. Sundberg, E., **Goodwin, D. M.** 2007. Usability Testing of Repositionable and Customizable Locking Mounts with Rehabilitation Professionals. Proc RESNA 2007 Ann Conf, Washington, DC: RESNA Press.
10. **Goodwin, D.** 2007. Independently Accessible Mounting and Positioning Technology. G. Eizmendi, J. M. Azkoitia, and G. M. Craddock (eds.) Challenges for Assistive Technology AAATE 07. (pp. 35-39). Washington, DC: IOS Press.

Patents

1. **Volkman C., D. Goodwin, and S. Rovig**, inventors; White Pine Concepts LLC, assignee. 2002. Gardening kneeling assistor. U.S. Patent D454,438.
2. **Volkman C., D. Goodwin, and S. Rovig**, inventors; White Pine Concepts LLC, assignee. 2002. Gardening stool. U.S. Patent D454,706.
3. **Goodwin D., S. Rovig, and K. Kinney**, inventors; Blue Sky Designs, Inc., assignee. Applied 2003. Collapsible Structure with Door Mechanism. U.S. Patent Pending.
4. **Volkman C., D. Goodwin, and S. Rovig**, inventors; White Pine Concepts LLC, assignee. 2004. Garden seat. U.S. Patent.
5. **Goodwin D., S. Rovig, and K. Kinney** inventors; Blue Sky Designs, Inc., assignee. 2007. Tent Pole Brackets and Methods of Use. U.S. Patent 7228867.
6. **Goodwin D., S. Rovig, and K. Kinney**, inventors; Blue Sky Designs, Inc., assignee. 2006. Tent. U.S. Patent D516,155.
7. **Goodwin D., S. Rovig, and K. Kinney**, inventors; Blue Sky Designs, Inc., assignee. 2006. Tent and Fly. U.S. Patent D519,595
8. **Goodwin D., N. Lee, L. Petersson, S. Rovig, and A. VonDuyke**, inventors; Blue Sky Designs, Inc., assignee. 2011. Mounting and Positioning Apparatus for Increased User Independence. U.S. Patent 8,056,874 B2

Commercial Products

- 1994 **Specs Switch**, AbleNet
- 1996 **TV&VCR Remote**, AbleNet
- 1997 **All-Turn-It Spinner games**, AbleNet
- 1997 **All-Turn-It Spinner**, AbleNet
- 2002 **Garden Rocker**, licensed to Vertex
- 2005 **Freedom tent**, licensed to Eureka
- 2005 **Fan door**, licensed to Eureka and incorporated into various tents and shelters
- 2008 **Mount'n Mover**, BlueSky Designs
- 2009-10 **Mount'n Mover** accessories: Floor Stand, Mount'n Tilter, iPad mount, laptop tray, camera plate

C. Research Support

Paralyzed Veterans of America Research Foundation: Development grant, pilot project

Portable Transfer Technology for Boarding Boats Goodwin (PI) 1/2010-12/2010

This project furthered research into a transfer system to enable individuals with mobility impairments to more safely board boats. Research focused on the drive and lift mechanism (powered and manual) which provides a controlled descent, mechanical advantage as a person ascends, and holds its position when the controls are released; an adjustable seat platform/trolley; and an angle adjustable rail system, ranging from flat to vertical.

NIH SBIR Phase 2 (2005-07)* Goodwin (PI) 8/2005-12/2007

Accessible Mounting and Positioning Technology for People with Disabilities

This project will result in a modular mounting system, attaching to wheelchairs or tables, which individuals with limitations in strength, reach, and dexterity can access, and reposition independently.

NIDRR SBIR Phase 1 (2003-04) H133S0301* Goodwin (PI) 10/2003-4/2004

Independently Operable Device Mounting and Positioning Technology for People with Disabilities

Preliminary feasibility of a modular mounting system, attaching to wheelchairs or tables, which individuals with limitations in strength, reach, and dexterity can access, and reposition independently.

NIDRR SBIR Phase 2 (2006-09)* Goodwin (PI) 10/2006-9/2009

Powered Device Mounting and Positioning Technology for Persons with Disabilities

This project will result in a powered device mounting and positioning system which enables individuals with severe physical limitations to reposition devices independently via switch, joystick or voice input.

NIDRR SBIR Phase 1 (2005-06)* Goodwin (PI) 10/2005-4/2006

Powered Device Mounting and Positioning Technology for Persons with Disabilities

The goal of this project was to begin designing a modular accessible robotic mounting arm for use as an accessory to wheelchairs or on a floor stand

USDA SBIR, Phase 2 (2002-04) 2002-33610-12753 Goodwin (PI) 7/2002-8/2004

In-tent-ionally Accessible Vestibule and Tent for People with and Without Disabilities

Continuation of Phase I research. Resulted in licensing of accessible tent designs.

USDA SBIR, Phase 1 (2001-02) 2001-33610-10458 Goodwin (PI) 5/2001-1/2002

In-tent-ionally Accessible Vestibule and Tent for People with and Without Disabilities

The goal of this project is to design camping tents and vestibules for marketplace with a broader population in mind. Using the principles of universal design, the structures will be easily accessible and functional for people with disabilities (and without disabilities as well).

NIDRR SBIR, Phase 1 (2007-08) H133S070021 Goodwin (PI) 9/2007-3/2008

Accessible Watercraft Transfer Device

The goal of this project is to design ways to make boating accessible to a broader population. Using the principles of universal design, the designed structure will be easily accessible and functional for people with disabilities (and without disabilities as well).

USDA SBIR, Phase 1 (2005) 2005-00349 Goodwin (PI) 5/2005-12/2005

All Aboard: Development of Portable Watercraft Transfer Technology to Increase Access to Boating for People with Disabilities

The goal of this project is to design ways to make boating accessible to a broader population. Using the principles of universal design, the designed structure will be easily accessible and functional for people with disabilities (and without disabilities as well).

*Study is similar to current recieved IRB approval