



9th International Symposium on  
**GAIT & BALANCE IN MULTIPLE SCLEROSIS**  
Technology for Assessment and Intervention

**OCTOBER 5, 2019**

University of Colorado, Anschutz Medical Campus • Denver, Colorado

This year's conference focuses on advances in technology to accurately assess and treat gait and balance impairment in people with multiple sclerosis. Specifically, this year's symposium will detail current knowledge regarding the use of cutting-edge technology to enhance both laboratory and clinical analysis techniques. Additionally, this meeting will detail novel intervention approaches for gait and balance impairment in people with MS, providing insight for healthcare professionals who serve them, as well as scientists and those involved in MS advocacy, to improve the quality of life of people living with MS.

**SYMPOSIUM OBJECTIVES**

After attending this symposium, attendees will be able to:

- Describe technologically-based approaches to monitor the quality and quantity of gait and balance dysfunction in MS
- Detail the underlying neural mechanisms contributing to gait and balance dysfunction in MS
- Understand how to utilize advances in technology to treat gait and balance in people with MS
- Apply intervention approaches utilizing cutting-edge technology (both high and low fidelity) to optimize gait and balance in MS

**WHO SHOULD ATTEND**

Multiple sclerosis clinicians or researchers, including:

- physicians (neurologists, physiatrists)
- physical therapists
- occupational therapists
- rehabilitation scientists
- nurses
- physician assistants

**FOR MORE INFORMATION VISIT: [www.ohsubrain.com/msgait](http://www.ohsubrain.com/msgait)**



IN PARTNERSHIP WITH:



**COLORADO STATE UNIVERSITY**



Physical Therapy  
SCHOOL OF MEDICINE  
UNIVERSITY OF COLORADO  
ANSCHUTZ MEDICAL CAMPUS

**VA**



U.S. Department of Veterans Affairs  
Veterans Health Administration  
Multiple Sclerosis Centers of Excellence

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**AGENDA - SATURDAY OCTOBER 5, 2019**

8:00 am Registration & continental breakfast

**MORNING SESSIONS -  
USE OF TECHNOLOGY FOR  
ASSESSMENT**

8:30 am Introduction and welcome: The emerging relationship of technology for rehabilitation in MS  
Kathleen M. Zackowski, PhD, OTR, MSCS  
*National Multiple Sclerosis Society – New York, NY  
Kennedy Krieger Institute and Johns Hopkins University – Baltimore, MD*

9:15 am Using brain imaging and brain stimulation for mobility assessment in MS  
Brett Fling, PhD  
*Colorado State University - Fort Collins, CO*

10:00 am BREAK

10:15 am Virtual reality and in-home monitoring  
Christopher Rhea, PhD  
*University of North Carolina - Greensboro, NC*

11:05 am Understanding body worn sensors for assessment in MS  
Valerie Block, PT, DPTSc  
*University of California San Francisco - San Francisco, CA*

12:30 pm LUNCH

**AFTERNOON SESSIONS -  
INTERVENTION AND TRANSLATION  
TO THE CLINIC**

1:00 pm Use of perturbation training to improve protective postural control in MS  
Daniel Peterson, PhD  
*Arizona State University - Phoenix, AZ*

1:50 pm Therapeutic benefits of electrical nerve stimulation in MS  
Roger Enoka, PhD  
*University of Colorado - Boulder, CO*

2:35 pm BREAK

2:45 pm Evidence for the use of telemedicine in MS  
Dawn Ehde, PhD  
*University of Washington - Seattle, WA*

3:35 pm The three E's of integrating technology into clinical practice: Ethically, effectively, efficiently  
Lecture and facilitated panel discussion  
Deborah Backus, PT, PhD, FACRM  
*Shepherd Center - Atlanta, Georgia*

5:00 pm Wrap Up  
Michelle Cameron, MD, PT, MCR  
*Oregon Health & Science University and Portland VA Health Care System - Portland, OR*

**SATURDAY EVENING POSTER RECEPTION**

5:30 pm - Poster reception with hors d'oeuvres and drinks.

8:30 pm Authors are available for discussion from 6-7:00 pm.

**CONFERENCE STEERING COMMITTEE**

Michelle H. Cameron, MD, PT, MCR; Brett Fling, PhD; Gail L. Widener, PT, PhD; Kathleen M. Zackowski, PhD, OTR, MSCS

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## CALL FOR POSTERS

Please send abstracts on topics related to gait and balance in multiple sclerosis to Gail Widener at [gwidener@samuelmerritt.edu](mailto:gwidener@samuelmerritt.edu) by **June 14, 2019** for review.

When submitting your abstract please indicate if the poster will be prepared/presented by a trainee (either a student or post-doctoral trainee).

### Abstracts must meet the following criteria:

- A maximum of 300 words
- Use 12 point font, single spaced
- Title contain a maximum of 150 characters (including spaces)
- Authors names (last name followed by initials separated by commas) and affiliations must follow the title

### Research abstracts must include the following headings:

- Background and Purpose
- Methods
- Results
- Discussion

### Case report abstracts must include the following headings:

- Background and Purpose
- Case Description
- Outcomes
- Conclusion

*\*The top 5 posters from trainees will be selected to receive waived symposium registration.*

## CONTINUING MEDICAL EDUCATION

### ACCREDITATION

Oregon Health & Science University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

### PHYSICIAN CREDIT

OHSU School of Medicine designates this live activity for a maximum of 7 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

*\*All symposium attendees will be provided with a certificate of attendance for hours attended.*

## HOTEL ACCOMODATIONS

Hyatt Regency Aurora Denver  
13200 East 14Th Place  
Aurora, Co, 80011  
Toll Free: 877-803-7534

A discounted room rate of \$129/night plus tax is being provided until the cut-off date of September 13, 2019 OR until the group block is sold out, whichever comes first.

Call 720-859-8000 and reference "Gait & Balance Symposium" to receive the group rate.

## REGISTRATION

**\$199 Regular rate**

**\$160 Early registration before July 31**

**\$100 Students; OHSU, UC, CSU and VA employees**

*\* Physician CME credit memo \$25 extra.*

Registration fee includes continental breakfast, lunch, and symposium reception with hors d'oeuvres and drinks.

Space is limited.

Register online at [www.ohsubrain.com/msgait](http://www.ohsubrain.com/msgait)

## CONTACT

For more information visit [www.ohsubrain.com/msgait](http://www.ohsubrain.com/msgait). For questions contact Moriah Hanson at 720-980-5896 or email [Moriah.Hanson@colostate.edu](mailto:Moriah.Hanson@colostate.edu)



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**Oregon Health & Science University**

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