



## MEETING THE CHALLENGES OF SAFE TRANSPORTATION IN AN AGING SOCIETY SYMPOSIUM

**September 14-15, 2016**

North Campus Research Center (NCRC)

Building 18, Dining Hall

---

### AGENDA

#### **Wednesday, September 14 - NCRC Building 18 Dining Hall**

7:15 - 8:15.....Registration and Breakfast

8:15 - 8:30.....Welcome and Opening Remarks

David W. Eby, Director, ATLAS Center

James Sayer, Director, UMTRI

S. Jack Hu, Vice President of Research, U-M Office of Research)

8:30 - 9:00.....Keynote Speaker (Dr. Raymond Yung, University of Michigan)

9:00-10:30.....Enhancing Transportation Infrastructure for an Aging Society Symposia

(Moderator: Jun Seok-Oh)

10:30-10:55.....Break (Poster Judging)

11:00 - 12:30....Longitudinal Research on Aging Drivers (LongROAD) Part I Symposia

(Moderator: Lisa J. Molnar)

12:30 - 1:30.....Lunch and Poster Judging

1:30 - 3:00.....LongROAD Part II Symposia (Moderator: David Eby)  
3:00- 3:30.....Break (Poster Judging)  
3:30 - 5:00.....Stakeholder Perspectives Session (Moderator: Laura Higgins)  
5:00 - 5:10.....Wrap Up

### **U-M Museum of Art Reception with Skyline Symphony Orchestra**

5:15.....U-M Bus Service will transport attendees to event  
5:30.....U-M Bus Service will transport attendees to event  
5:30-6:00 to 8:30....Reception with food, drink, and music  
Museum and gift shop open for private viewing until 9:00 p.m.  
7:30, 8:00, and 8:30 p.m. U-M buses transportation back to NCRC, UMTRI, and  
symposium hotels

### **Thursday, September 15 - NCRC Building 18 Dining Hall**

7:15 - 8:15.....Registration and Breakfast  
8:15 - 8:20.....Sponsor Opening Remarks (Jun Seok-Oh and John Sobanjo)  
8:20 - 8:45.....Keynote Speaker (Dr. Bryan Porter, Old Dominion University)  
8:45 - 10:15.....Technology Session (Moderator: John Sobanjo)  
10:15-10:30.....Break (Poster Judging)  
10:30-12:00.....Prospective Changes in the Candrive/Ozcandrive Older Driver Cohorts  
Symposia (Moderator: Shawn C. Marshall)  
12:00 - 12:15...Closing Remarks and Poster Competition Awards  
12:15 - 1:15.....Box Lunch

### **Mcity Tour and Ann Arbor Connected Vehicle Test Environment (AACVTE)**

1:15 - 1:45.....Begin transport to UMTRI for tour and drive  
2:00 - 3:00.....Mcity Tour (Led by: James Sayer, Director, UMTRI)  
3:00 - 4:00.....AACVTE Drive (Groups of 10) (Led by: Debby Bezzina)

## Single Presentation Sessions

### Stakeholder Perspectives Session

**(Moderator: Laura Higgins)**

Michel Bédard, PhD  
Dean, Faculty of Health and Behavioural Sciences  
Director, Centre for Research on Safe Driving  
Professor, Department of Health Sciences and Northern Ontario School of Medicine  
Lakehead University

Presentation Title: Ten Facts about Older Drivers You Can Bank On

Eren Erman Ozguven, PhD  
Assistant Professor of Civil and Environmental Engineering  
Florida A&M-Florida State University

Presentation Title: Integrated Assessment of Safety, Accessibility, and Reliability for Aging Roadway Users: Case Studies in Florida

Anne Dickerson, PhD, OTR/L, SCDCM, FAOTA  
Professor, Department of Occupational Therapy  
East Carolina University

Presentation Title: Interactive Driving Simulators: Implications for Clinical Use

Linda L. Hill, MD, MPH  
Professor, Department of Family Medicine and Public Health  
Director, Preventive Medicine Residency  
University of California, San Diego

Presentation Title: Training Law Enforcement in the Identification of Medical Impairment in Aging Drivers

Jon Antin, PhD  
Director, Center for Vulnerable Road User Safety  
Virginia Tech Transportation Institute

Presentation Title: An Investigation of the Low Mileage Bias using Naturalistic Driving Study Data

## **Technology Session**

**(Moderator: John Sobanjo)**

Anuj Pradhan, PhD  
Assistant Research Scientist  
Human Factors Group  
UMTRI

Presentation Title: Vehicle Automation and the Driver Age: Human Factors Implications

Han Yoon, PhD  
Postdoctoral Researcher  
Human Rehabilitation Group  
Texas A&M University

Presentation Title: An Approach to Customize Haptic Guidance for the Aged Power-Wheelchair Riders

Shan Bao, PhD  
Associate Research Scientist  
Human Factors Group  
UMTRI

Presentation Title: The Older Driver and Advanced Driver Assistance Systems (ADAS): Insights from a Naturalistic Driving Field Operational Test

Paul Fancher, MSE  
Senior Scientist Emeritus  
Vehicle Systems and Control Group  
UMTRI

Presentation Title: Improving Safe Transportation for Older Adults in a Socially-mobile Environment

## Symposia

### **Enhancing Transportation Infrastructure for an Aging Society**

**(Moderator: Jun Seok-Oh)**

Valerian Kwigizile, PhD  
Associate Professor  
Western Michigan University

Presentation Title: Safety Benefits of Selected Engineering Improvements for Older Drivers in Michigan

C. Scott Smith, PhD  
Research Associate  
Transportation Research Center for Livable Communities  
Western Michigan University

Presentation Title: Public Transit Service for Elderly Mobility

Ron Van Houten, PhD  
Professor  
Western Michigan University

Presentation Title: Potential Infrastructure Counter Measures for the Aging Drivers

Keith Christensen, PhD  
Associate Professor  
Utah State University

Presentation Title: The Relationship between Transportation and Elderly Individuals' Access to Community Health Services

Stephen Mattingly, PhD  
Associate Professor  
University of Texas at Arlington

Presentation Title: Transportation Mobility for Older Adults in Low Density Urban Environments

## **Longitudinal Research on Aging Drivers (LongROAD) Part I**

**(Moderator: Lisa J. Molnar)**

Jacqui Smith, PhD  
Professor of Psychology and Research Professor  
University of Michigan Institute of Social Research

Presentation Title: Driving for Life: Age, Context, and Implications for Life Quality

Guohua Li, MD, DrPH  
Finster Professor of Epidemiology  
Founding Director  
Center for Injury Epidemiology and Prevention  
Columbia University

Presentation Title: Longitudinal Research on Aging Drivers (LongROAD): Study Design and Methods

Linda Nyquist, PhD  
Research Specialist  
University of Michigan Geriatrics Center

Presentation Title: LongROAD Study: Recruitment and Enrollment at the University of Michigan

David Strogatz, PhD  
Director  
Center for Rural Community Health  
Bassett Research Institute

Presentation Title: Vehicle Condition and Features--Information from Direct Inspections and Self-Reports

Scott Bogard  
Lead Engineer  
Engineering Systems Group  
UMTRI

Presentation Title: Driving Data Collection and Fleet/Device Monitoring--An Overview

## **LongROAD Part II**

**(Moderator: David W. Eby)**

Lindsay Ryan, PhD  
Assistant Research Scientist  
University of Michigan Institute for Social Research

Presentation Title: An Overview of Cognitive Indicators: The LongROAD Study

Thelma Mielenz, PhD  
Assistant Professor of Epidemiology  
Mailman School of Public Health  
Columbia University

Presentation Title: Assessment of the Physical Health Domain in LongROAD: Self-Report and Performance-Based

Renée St. Louis, MPH  
Research Area Specialist  
Behavioral Sciences Group  
UMTRI

Presentation Title: Review of Prescription and Other Medications and Supplements

Linda L. Hill, MD, MPH  
Professor, Department of Family Medicine and Public Health  
Director, Preventive Medicine Residency  
University of California, San Diego

Presentation Title: Review of Medical Conditions and Health Care Utilization

Jennifer Zakrajsek, MS, MPH  
Senior Research Associate  
Behavioral Sciences Group  
UMTRI

Presentation Title: Driving Status, Violations, and Crashes: Data from State Records

## **Prospective Changes in the Candrive/Ozcandrive Older Driver Cohorts**

**(Moderator: Shawn C. Marshall)**

Shawn C. Marshall, MD, MSc, FRCPC  
Specialist, Physical Medicine and Rehabilitation  
Professor, Department of Medicine  
University of Ottawa

Presentation Title: The Candrive Older Driver Study: Prospective Changes in Health Characteristics and Impact on Driving over 5 Years

Judith Charlton, PhD  
Acting Director, Monash University Accident Research Centre  
Australia

Presentation Title: How Do Driving Patterns of Older Australians Change over Time? Early Findings from the Candrive/Ozcandrive Older Driver Cohort Study

Sylvain Gagnon, PhD  
Professor, School of Psychology  
University of Ottawa

Presentation Title: Simulator Driving Performance is associated with subsequent Cognitive Decline over Time: Preliminary Evidence from the Candrive Study

Sjaan Koppel, PhD  
Senior Research Fellow  
Monash University Accident Research Center, Australia

Presentation Title: Can Changes in Older Drivers' On-Road Performance across One Year be Predicted by Changes in their Functional Ability Measures or Self-Reported Driving-related Comfort, Abilities, or Practices?

Michel Bédard, PhD  
Dean, Faculty of Health and Behavioural Sciences  
Director, Centre for Research on Safe Driving  
Professor, Department of Health Sciences and Northern Ontario School of Medicine  
Lakehead University

Presentation Title: Changes in Drivers' Readiness for Mobility Transition over Time: Results from the Candrive Study

Brenda Vrkljan, PhD, OT  
Associate Professor of Occupational Therapy  
McMaster University, Hamilton, Canada

Presentation Title: Hand Positioning behind the Wheel: Naturalistic Observation of Older Drivers from the Candrive Project