

# THE FIFTH THE EYE AND THE AUTO WORLD RESEARCH CONGRESS

## Monday, September 12, 2011

(Presentations are 20 minutes long plus a 10 minute Q & A - Challenge period)

7:00-8:00 **Registration, Coffee and Continental Breakfast: GM Learning Center,  
Off of the circulation ring between towers 200 and 300, Level 2**

8:00-8:15 **Welcome and Introduction**

### Session #1: Bioptic Driving by Visually Impaired Persons

---

8:15-8:45	<b>Joanne Wood, PhD</b> , MCOptom, Queensland University of Technology, Queensland, Australia	<b>Characterizing On-Road Driving Performance in Drivers Using Bioptic Telescopes</b>
8:45-9:15	<b>Bradley Dougherty, OD, MS</b> , Ohio State University, Columbus, OH	<b>Bioptic Driving in Ohio</b>
9:15-9:45	<b>Elgin, Jennifer, MSOT</b> , University of Alabama at Birmingham, Birmingham, AL	<b>Licensed to Drive in Alabama's Bioptic Telescope Program: Driver and Telescope Characteristics, Driving Exposure, and Driving Difficulty</b>

9:45-10:00 **Coffee Break**

---

10:00-10:20	<b>Lylas Mogk, MD</b> , Henry Ford Grosse Pointe Ophthalmology, Grosse Pointe, MI	<b>Protecting Public Safety and Playing Fair With Patients: Protocol for Off-Road Evaluation of Senior Drivers and Prospective Bioptic Drivers</b>
10:30-11:00	<b>Charles P. Huss, MA</b> , WV Bioptic Driving Program State Capitol Complex, Charleston, WV	<b>West Virginia Bioptic Driving Program: Overview and Progress Update</b>

### Session #2: Pedestrian Safety for Visually Impaired Persons

---

11:00-11:30	<b>Richard G. Long, PhD and Bastian J. Schroeder, PhD</b> , Western Michigan University, Kalamazoo, MI and North Carolina State University at Raleigh, NC	<b>Access to Uncontrolled Crosswalks by Individuals Who Have Visual Impairments: Roundabouts, Channelized Turn Lanes and Driver-Pedestrian Interactions</b>
11:30-12:00	<b>Robert Wall Emerson, PhD</b> , Western Michigan University, Kalamazoo, MI	<b>Quiet Cars, Blind Pedestrians, and Performance of Orientation and Mobility Tasks</b>

12:00-1:00 **Lunch**

1:00-2:00 **Keynote Lecture: Where We Look When Driving A Car**  
**Michael Land, PhD**, Sussex Vision Laboratory, Sussex Center for Neuroscience, University of Sussex, UK

### Session #3: Policy, Practice, and Methodology

---

2:00-2:30	<b>Leonard Evans, MA, FRS, PhD</b> , Science Serving Society, Bloomfield Hills, MI	<b>Topsy-Turvy U.S. Safety Policy Continues to Kill Thousands of Road Users</b>
2:30-3:00	<b>Timo Tervo, MD, PhD, EBO</b> , Helsinki University Eye Hospital, Helsinki, Finland	<b>Death at the Wheel in Finland and its Uusimaa County 2009</b>

3:00-3:15 **Coffee Break**

---

3:15-3:45	<b>David Musch, PhD, MPH</b> , University of Michigan, Ann Arbor, MI	<b>Assessing Driving in Older Adults: A Survey of Vision Care Providers in the State of Michigan</b>
3:45-4:15	<b>Matthew Rizzo, PhD</b> , University of Iowa, Iowa City, IA	<b>Measurement of Real-World Driving in Aging and Medical Disorders</b>

4:15-5:00 **Break and Set-up Time for Poster Session and Reception**

5:00-7:00 **Poster Session and Reception**

# THE FIFTH THE EYE AND THE AUTO WORLD RESEARCH CONGRESS

**Tuesday, September 13, 2011**

(Presentations are 20 minutes long plus a 10 minute Q & A - Challenge period)

**7:00-8:00** **Registration, Coffee and Continental Breakfast: GM Learning Center,  
Off of the circulation ring between towers 200 and 300, Level 2**

## **Session #4: Visual Field Impairment and Driving**

---

<b>8:00-8:30</b>	<b>Pradeep Ramulu, MD, PhD, MHS</b> , Wilmer Eye Institute, Johns Hopkins University, Baltimore, MA	<b>Driving Cessation, Driving Restriction and Driver Preference in Older Adults with Glaucoma and Macular Degeneration</b>
------------------	---	--

---

<b>8:30-9:00</b>	<b>Felipe Medeiros, MD, PhD</b> , University of California, San Diego, La Jolle, CA	<b>Driving Simulation in Patients with Glaucoma</b>
------------------	---	---

---

<b>9:00-9:30</b>	<b>Anjali Bhorade, MD, MSCI</b> , Washington University School of Medicine, St. Louis, MO	<b>On-road Driving Performance in Patients with Moderate and Advanced Glaucoma</b>
------------------	---	--

---

<b>9:30-10:00</b>	<b>Gerald McGwin, Jr., MS, PhD</b> , University of Alabama at Birmingham, Birmingham, AL	<b>Motor Vehicle Collision Involvement Among Persons with Hemianopia and Quadrantanopia</b>
-------------------	--	---

---

**10:00-10:15** **Coffee Break**

---

<b>10:15-10:45</b>	<b>Ulrich Schiefer, MD and Eleni Papageorgiou, MD</b> , Department & Research Institute for Ophthalmology, Tuebingen, Germany	<b>Gaze Patterns Predicting Successful Collision Avoidance in Patients with Homonymous Visual Field Defects</b>
--------------------	---	---

---

<b>10:45-11:15</b>	<b>Jamie Dow, MBA, MD</b> , Société de l'assurance automobile du Québec Québec City, Quebec, Canada	<b>Visual Field Defects and Driving: Crash Rates</b>
--------------------	---	--

---

<b>11:15-11:45</b>	<b>Eli Peli, M.Sc., OD</b> , Schepens Eye Research Institute, Harvard University, Boston, MA	<b>Driving with Central and Pericentral Field Loss</b>
--------------------	--	--

---

**11:45-1:15** **Working Lunch: Visual Acuity Cutoff Requirements, State Motor Vehicle Licensure Departments**  
**Philip C. Hessburg, MD – Discussion Leader**, Detroit Institute of Ophthalmology, Grosse Pointe Park, MI

---

**1:15-2:15** **Keynote Lecture: Human Machine Interface for Semi-Autonomous Vehicles**  
**Jan Aase, MSME**, General Motors Vehicle Development Research Lab. and Design & Technology Integration, R&D, Warren, MI

## **Session #5: Human Interaction with the Vehicle and Roadway Environment**

---

<b>2:15-2:45</b>	<b>Thomas E. Seder, PhD</b> , General Motors Human Machine Interface, Vehicle Development Research Lab, R&D, Warren, MI	<b>Persuasive Design - EcoDisplays</b>
------------------	---	--

---

<b>2:45-3:15</b>	<b>Cynthia Owsley, PhD, MSPH</b> , University of Alabama at Birmingham, Birmingham, AL	<b>Association between Older Adults' Visual Processing Skills and Their Attitudes About Instrument Cluster Format Design</b>
------------------	--	--

---

**3:15-3:30** **Coffee Break**

---

<b>3:30-4:00</b>	<b>Thomas Schalk, PhD</b> , ATX Group, Inc., Irving, TX	<b>Assessment of Hands-Free Outbound Texting and Navigation Destination Entry</b>
------------------	---	---

---

<b>4:00-4:30</b>	<b>Ronald Gibbons, PhD</b> , Virginia Tech Transportation Institute, Blacksburg, VA	<b>Understanding Driver Eye Movements at Night: The Influence of Lighting and Context</b>
------------------	---	---

---

<b>4:30-5:00</b>	<b>Michael Flannagan, PhD</b> , University of Michigan Transportation Institute, Ann Arbor, MI	<b>Can Headlights Be As Good As They Need To Be?</b>
------------------	--	--

---

**6:30-9:30** **Bartimaeus Dinner, Andiamo Restaurant, Ren Center Wintergarden Area**



# THE FIFTH THE EYE AND THE AUTO WORLD RESEARCH CONGRESS POSTER PRESENTERS

**Barker, Felix, OD, MS**

DoD/VA Vision Center of Excellence  
Rock Hill, SC

**Charlton, Judith, PhD**

Monash University Accident Research Centre,  
Clayton, Victoria, Australia

**Cox, Daniel J., PhD**

University of Virginia, Charlottesville, VA

**Gould, Mark, BSc**

University of London, London, England

**Jay, Walter, MD**

Loyola University Chicago, Maywood, IL

**Libby, Daniel, BA**

Wichita State University, Wichita, KS

**Mc Gwin, Gerald, PhD**

University of Alabama at Birmingham,  
Birmingham, AL

**Owsley, Cynthia, PhD, MSPH**

University of Alabama at Birmingham,  
Birmingham, AL

**Rakowczyk, Kathy, BA, MS, OTR/L, CDRS, LDI**

Courage Center, Minneapolis, MN

**Ramulu, Pradeep, MD, MHS, PhD,**

Johns Hopkins University, Baltimore, MD

**Sun, Hongjin, PhD**

McMaster University, Hamilton, Ontario, Canada

**Wood, Joanne M., PhD**

MCOptom, Queensland University of Technology,  
Queensland, Australia

**Young, Richard, PhD**

Wayne State University, Detroit, MI

**Reintegration of Eye/Brain Injured Drivers From  
the Global War on Terror**

**Visual Field Loss and Intersection Gap Selection**

**Development of Driving-Relevant Measures of Visual  
Functioning and Their Clinical and Research Applications**

**Judging the Approach Speed of Motorcycles and Cars  
In Night-time Driving Conditions**

**Biopic Drivers in Illinois**

**Texting and Talking: An Investigation of Their Effects  
on Driving Performance**

**Association Between Age-Related Macular Degeneration and  
Motor Vehicle Collision Involvement: A Retrospective  
Cohort Study**

**UAB Study on Vision Screening for Driver Re-Licensure  
in the  $\geq 70$  year-old Population: Study Design**

**Do You See What I See?**

**Driving Restrictions and Real-world Measurements of Life  
Space and Physical Activity in Adults with Vision Loss**

**The Effect of Viewing Distance on Useful Field of View  
Measure and its Correlation to Driving Performance**

**Performance on the Useful Field of View Predicts Driving  
in the Presence of Distracters**

**A New Rapid Screening Tool for Assessing the Effects  
of Cognition on Visual Detection in Older Drivers**