

The Eye and The Auto 2009 Agenda (Draft 4) – Cynthia Owsley PhD/Philip C Hessburg MD
Revised: July 29, 2009

Date – Wed 9/16	Time	Speaker	Title
Registration, Coffee – Continental Breakfast	7:00 – 7:45		
	7:45 – 8:00	Hessburg/O'Malley/Owsley	Welcome & Intro to <i>The Eye and The Auto 2009</i>
	8:00 – 9:00	Burns	Keynote: The Eye, the Brain and the Auto Industry

Setting the Stage: What is the Public Health Issue; What older Drivers Think about Their Vehicles

	9:00-9:30	Dellinger	The Issue of Older Drivers From a Public Health Perspective: Injury Burden, Risk, and Prevention Strategies
	9:30 – 10:00	Owsley	Ask Older Drivers: Dashboard Design – A Qualitative Assessment
	10:00 – 13:00	Seder	Overview of HMI Research at GM
Coffee Break	10:30 – 11:00		LAB TOURS

The Visual Field and Its Role in Driving: An Understudied Area Till Now

	11:00 – 11:30	McGwin	Visual Field Impairment in Glaucoma and Motor Vehicle Collision Risk
	11:30 – 12:00	Papageorgiou	Visual Exploration in Patients with Homonymous Visual Field Defects
	12:00 – 12:30	Sifrit	Driving With Peripheral Visual Field Loss
	12:30 – 1:00	Dow	Visual Field Defects May Not Affect Safe Driving
Lunch Break & Posters; Lab Tours	1:00 – 2:00		Posters will remain up for duration of meeting

Vision Impairment, Aging, and Driving

	2:00 – 2:30	Wood	Effects of Vision and Age on Night-time Driving Visibility
	2:30 – 3:00	Szlyk	Evidence-based Vision Requirements for Safe Driving and Solutions for Deficit Compensation
	3:00 – 3:30	Peli	Simulator Studies of Driving with Impaired Vision
Coffee Break/Lab Tours	3:30 – 4:00		
	4:00 – 4:30	Meuser	Vision Data in Drivers Reported as Unfit: The Missouri Experience
	4:30 – 5:00	Nolan	Current Perspectives on Bioptic Driving: A Review of State Licensure Regulations
	5:00 – 5:30	Brown	Driving Simulator Advances for Vision Testing of Contact Lenses

Date: Thu 9/17	Time	Speaker	Title
Registration, Coffee, Continental Breakfast	7:00 – 8:00		

Higher-Order Visual Processing

	8:00 – 9:00	Merzenich	The Driver's Brain
	9:00 – 9:30	Wolfe	Where is Basic Attention Research Driving Us Next?
	9:30 – 10:00	Ball	Cognitive Training: Impact on Driving & Everyday Function
Coffee Break/Lab Tours	10:00 – 10:30		
	10:30 – 11:00	Delahunt	Reducing Crash Risk in a Population of Older Automobile Insurance Policyholders Using a Computer-based Visual Training Program
	11:00 11:30	Rizzo	In-Car Technology to Alert Attention Impaired Drivers
	11:30 – 12:00	Karacs	Basic Scene Understanding and Navigation With a Bionic Camera
Lunch, Posters, Lab Tours	12:00 – 1:00		
	1:00 – 1:30	Gray	Multisensory Rear-End Collision Warnings During Cell Phone Use
	1:30 – 2:00	Hassan	Can Pedestrians Make Correct Street-Crossing Decisions With Impaired Vision

Human Factors Research

	2:00 – 2:30	Hankey	Improving Transportation Safety – The Role of Naturalistic Driving Data
	2:30 – 3:00	Bullough	Methods of Predicting Visual Performance in Driving Situations
Coffee Break	3:00 – 3:30		
	3:30 – 4:00	Keay	Urban and Rural Differences in Older Drivers-Failure to Stop at Stop-signs
	4:00 – 5:00	Taub	Collaborative Research and Development with the New GM
Lab Tours	5:00 - 5:30		Tour of General Motors Lab

Date: - Fri 9/18 **Time** **Speaker** **Title**

Registration, Coffee – Continental Breakfast	7:00 8:00		
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Vehicle Design and Human Interface

	8:00 – 8:30	Reimer	Aging Drivers: A Need for Developing Advanced Driver Workload Measurements
	8:30 – 9:00	McConnell	Conti-Guard – How Blind Spot Elimination and Crash Avoidance Can be Realized With Sensors and Sensor Fusion
	9:00 – 9:30	DeGraef	Virtual Navigation Training and Gaze Guidance
	9:30 – 10:00	An	Lane Marking Detection Algorithm of A Land Departure Warning System Based on Neural Vision Models
Coffee Break, Lab Tours	10:00 – 10:30		
	10:30 – 11:00	Flannagan	New Light Sources, Automotive Lighting, and the Purkinje Shift
	11:00 – 11:30	Krzyzanowski	Xenon Car Lighting As Safety Device
	11:30 – 12:00	Davis	A Paradigm for Assessing Threat Detection & Local Area Awareness for Vehicle Research and Design
Adjourn	12:00	Lab Tours	