Collaborative Automotive Research and Innovation in Canada

Dr. Jan Miller Polgar
University of Western Ontario

AUTO21 NCE
June 2007

AUTO21: MISSION

To create and foster a network of world class Canadian scientists, researchers and engineers, who will make unique contributions to the development of the automobile of the 21st century and its impact on health, societal and environmental issues.

AUTO21 VISION

Through this Network of Centres of Excellence, Canada will strengthen its global competitive position, as well as create the environment, the highly qualified people, the skilled workforce and the jobs that will ensure that Canada is among the leaders in the automotive industry.

AUTO21 – Research Program Goals

ENVIRONMENT: Reduce the environmental impact of the manufacture, operation and end-of-life disposal of vehicles.

HEALTH: Enhance the safety of workers, occupants and the public in the manufacture and use of vehicles.

ECONOMY: Enhance the quality & performance of vehicles while reducing life cycle cost.

SOCIETY: Enhance the economic & social benefits derived from the manufacture and use of vehicles in Canada.

Research Themes

A - Health Safety & Injury Prevention
B - Societal Issues
C - Materials & Manufacturing
D - Powertrains Fuels & Emissions
E - Design Processes
F - Intelligent Systems & Sensors

Links to Other Organizations
Project ideas from private & academic partners.
- Partners define goals:
  - Relevance to industry
  - Academic excellence
  - Benefits to Canada
- Private + public sector funding (AUTO21)
- Solutions to technical problems
- Rights to commercialize intellectual property
- The chance to meet the brightest new people (potential future employees).

AUTO21: Project Partnership Model

AUTO21 – User Sector Interaction Model

AUTO21 Project Classes – Funding Cycle 1

SAFE TRANSPORTATION FOR SENIORS

CANADIAN AUTOMOBILE RESEARCH SIMULATION

Developing the best people and the best technology for the future of Canada's automotive industry

www.auto21.ca

www.nce.gc.ca
**Canadian Driving Research Initiative for Vehicular Safety in the Elderly (CanDRIVE)**

New Emerging Team
Funded by the CIHR Institute of Aging

---

**CanDRIVE - Vision**

To establish a national multidisciplinary collaborative approach to identify, analyze and address the health-related safety and quality-of-life issues pertaining to older drivers.

---

**CanDRIVE - Objectives**

- To address all health-related aspects (psychosocial, cultural, linguistic, societal, legal, health care resource, political) of ensuring the safety for older drivers
- To find ways to extend the length of time that persons can drive

---

**Brings Together...**

- researchers
- seniors groups
- clinicians
- ministries of transportation
- other governmental organizations
- non governmental agencies

---

**CanDRIVE: CONDUCTING RESEARCH**

- Established web-based driving research database
- Recruitment of researchers
- Research Projects
- Bursary Program to Support Postdoctoral and Student Research

---

**CanDRIVE: INFLUENCING CLINICAL PRACTICE**

- Establishment of an Advisory Board
- Development of website, materials for public and media consumption
- Consensus conferences
- Driver evaluation
- Driving Simulator research
- Systematic reviews
CanDRIVE: INFLUENCING POLICY

- Medical Advisory Committee of the Ministry of Transportation Ontario
- Consultants to various provincial ministries of transportation
- CCMTA associate members

www.CanDRIVE.ca