

# Cooperative Resources for Intelligent Vehicles

Caroline Michaels

April 12, 2007



# Agenda

- Overview of SAE International
- SAE Standards
- SAE Cooperative Research Program

# SAE's Purpose

*SAE is*

a non-profit

educational and scientific individual member organization

dedicated to advancing mobility to better serve humanity

## Over 90,000 SAE members

Develop technical information on all types of self-propelled propelled vehicles  
*including*

- Aircraft
- Automobiles
- Buses
- Off-highway equipment
- Marine
- Rail
- Transit systems
- Trucks

Each sector takes a different approach depending on customer requirements

## Aerospace

- SAE is world's leading standards developer
- Currently working closely with European SDOs

## Passenger Car

- SAE participates in ISO and WP29
- Safety & Electronics are key areas

## Commercial Vehicle

- Truck:
  - SAE participates in ISO and WP29
  - Successful leadership in electronics – J1939
- Off-Road
  - SAE provides U.S. TAG support to ISO committees

International body of mobility engineers and practitioners

*serving society by fostering the exchange of knowledge through*

- Interaction
- Creativity
- Timely response to change
- Social and economic responsibility
- User satisfaction

- Relevant, timely consensus standards available internationally
  - Product consensus standards
  - Process consensus standards
- Life-long learning, education, networking and career development opportunities for mobility engineers and practitioners
  - Career preparation from early formal education through university
  - Career knowledge enhancement and advancement
  - Access to industry, government and academic knowledge
  - Repository of mobility technologies and trends

*SAE is more than standards development*

**We provide**

- ✓ Technical Conferences and Symposia
- ✓ Networking
- ✓ Technical Literature
- ✓ Professional Development
- ✓ Cooperative Research

## SAE's Cooperative Research Programs

### Joint Venture Projects

*Consisting of*

Organizations

Pooled resources

*To gain knowledge of*

A Pre-competitive technical area

Results are shared by participants

## *Cooperative ventures make sense*

We are all under constant pressure to do more with less

Industry must join together to:

- Share expertise
- Share costs
- Avoid unnecessary duplication

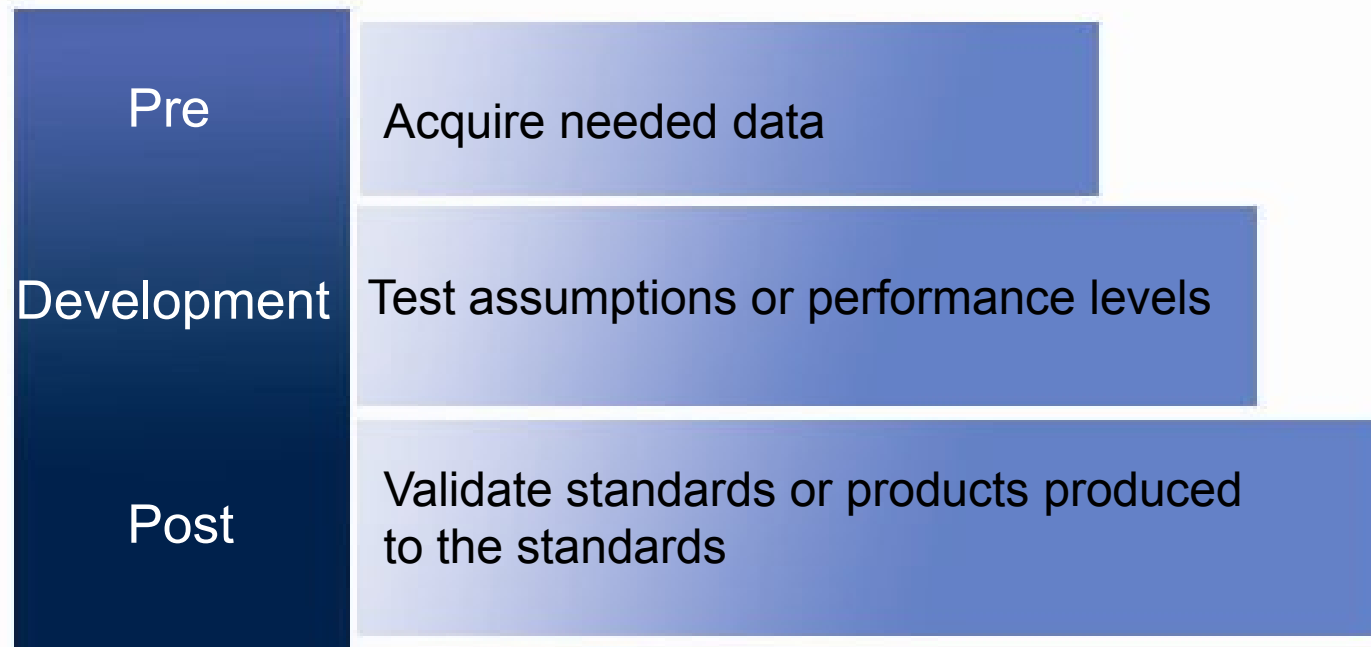
# Why SAE?

- ✓ SAE's basic charter is to foster cooperative efforts to serve industry
- ✓ SAE is independent, unbiased, non-profit organization
- ✓ SAE has a proven framework to administer joint venture projects

# Cooperative Research

The SAE CRP Program began 1989 and has administered over 60 projects

*Many projects are tied to standards efforts*



## *SAE can....*

- Bring together prospective partners to plan projects
- Provide facilities and staff services for meetings
- Provide a legal forum where industry can meet and provide administrative help for legal issues
- Provide project management and coordination
- Provide government contracting expertise

## **SAE**

- ✓ Takes on the role of subcontractor administrator
- ✓ Has a mature and well recognized information dissemination framework
- ✓ Ensures conformance to the National Cooperative Research Act

- ✓ Funded separately from standards
- ✓ Pay to play
  - Funds
  - In-kind
- ✓ Data is proprietary to funding partners
- ✓ Combination of government contracts and industry participation fees
- ✓ Set up as distinct joint ventures

## Candidate Project Characteristics

- Interest by 3 or more organizations
- Pre-competitive issue
- Group understands the need to combine resources or they need to ID funding source
- Clearly defined deliverables

## Current Active Projects of Interest

Fuel Cells

DSRC Message Sets and Data Dictionary

## In the current active projects:

- Number of organizations participating : over 100
- Total budget value of current projects: over \$3.5M
- Number of Government contracts : 6
- Number of Subcontracts: over 20

# Questions?

**SAE** *International*

# Contact:

## Caroline Michaels

SAE Automotive Headquarters  
755 West Big Beaver, Ste. 1600  
Troy, Michigan, 48084

[carolinemichaels@sae.org](mailto:carolinemichaels@sae.org)

office: 248-273-2490