

# Coordinating Research Council, Inc.

## Organizational Overview

October 2022



# What type of organization is the CRC?

## Examples of associations of companies that engage on policy



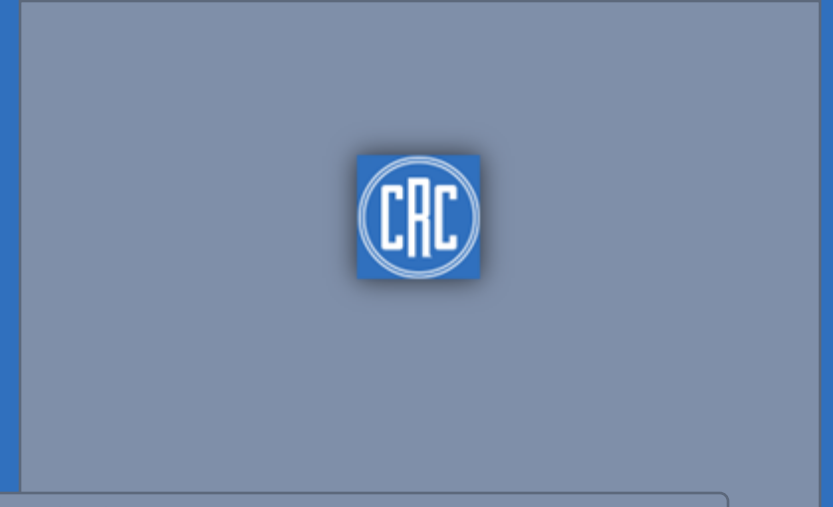
501(c)(6) Organizations

## Examples of associations of people with a strictly scientific role



501(c)(3) Organizations

## Examples of associations of companies with a strictly scientific role



Can Lobby

Can Not Lobby

CRC is an association of companies organized and operated exclusively for scientific purposes for the benefit of the public.

# A Century of CRC History

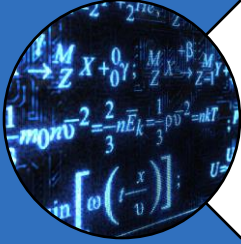
1920s	1930s	1940s	1950s	1960s	1970s	1980s	1990s	2000s	2010s	2020s+
Beginning: Cooperative Fuels Research (CFR) Committee of SAE		Military Research: Aviation & Vehicle Performance			Air Quality: Light-Duty Vehicle Focus			Wider View: +Autos, +Committees		Global View: Sustainability



Research emphasis of the Council adapts to the needs of Members. More diverse than this simple summary, research continues today in all of the topics listed.



# CRC Objectives



Be a focal point for cooperative, pre-competitive research.



Provide a forum for all stakeholders to participate in the research.



Make technical information available to industries, governments and the public.

Formed in 1919,  
incorporation in 1942.

501(c)(3) nonprofit  
association organized to  
direct scientific research.

No advocacy or lobbying.  
Intellectual property and  
antitrust protections.

All CRC research reports  
are available to the public.



# What are the benefits of Membership in CRC?

## Members Contribute:

**Researchers** – the people that make cooperative research successful

**Funding** - annual base, and additional cost-share when appropriate

**In-Kind Support** - Laboratory testing, equipment, and materials

## Members Receive:

Interaction with expansive **research network**

Extraordinary **leveraging of research funds** - full access to projects funded by far more funds than the individual member cost

Detailed and immediate insights into **latest results**

## Benefits for All:

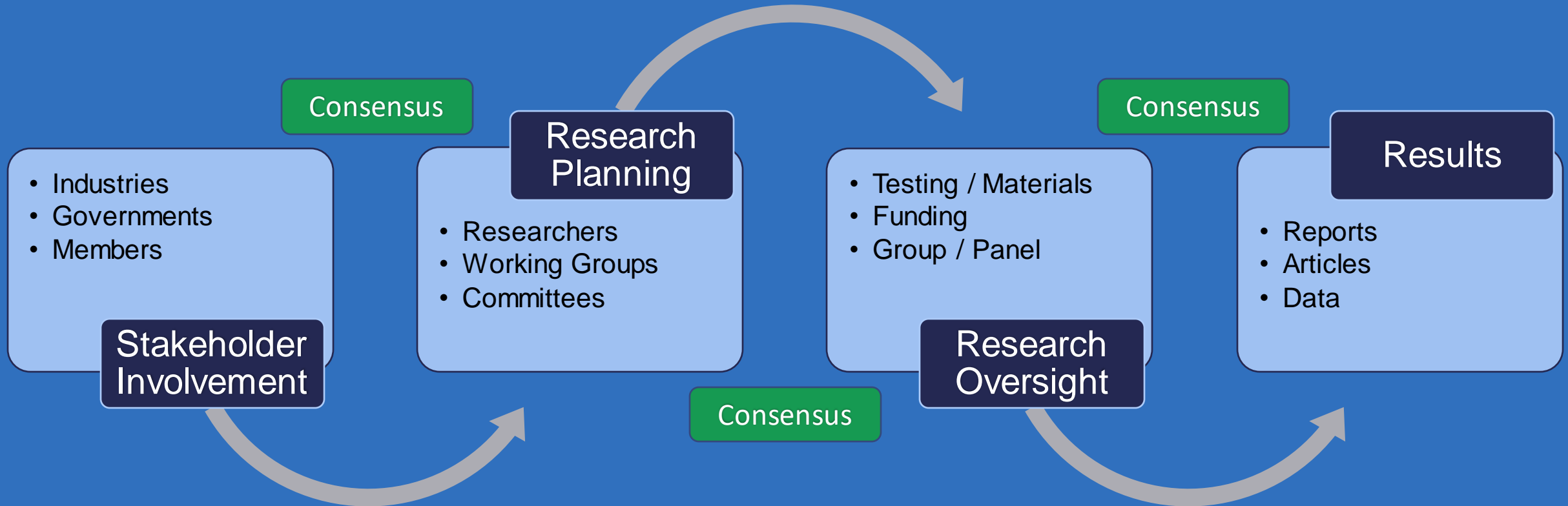
**Well-informed public policy** based on sound science where all stakeholders have contributed

**Improved standards** allowing all segments of the mobility industry to work together

**Open exchange** of information to move technology forward



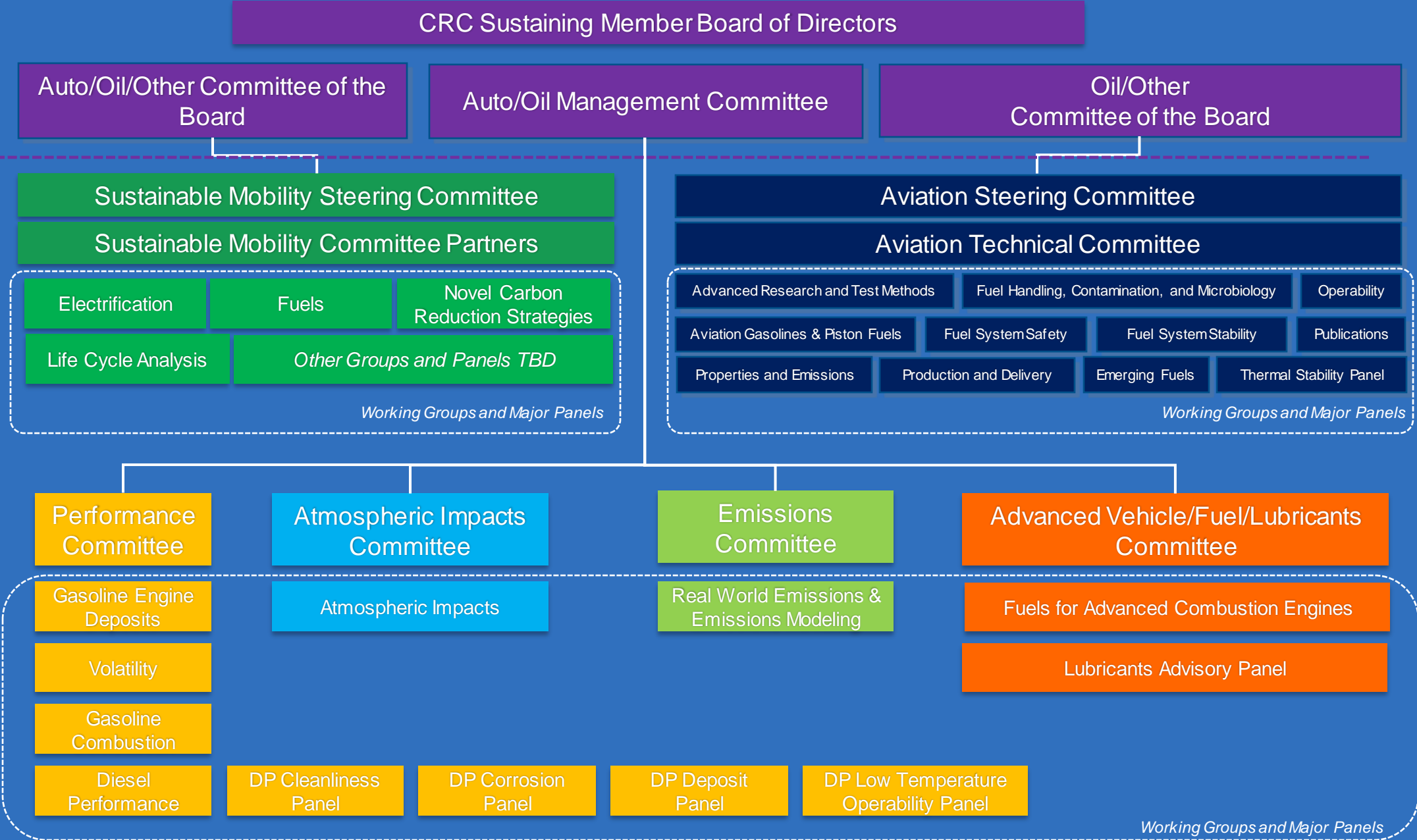
# The Process for Cooperative Research



# CRC Organizational & Technical Committee Structure

- Corporate Governance:
- Contract review
  - Base Funding
  - Staffing

- Technical Activity:
- Research Plans
  - Project Oversight
  - Report Review
  - Workshops



Working Groups and Major Panels

# Advanced Vehicle/Fuel/Lubricants Committee

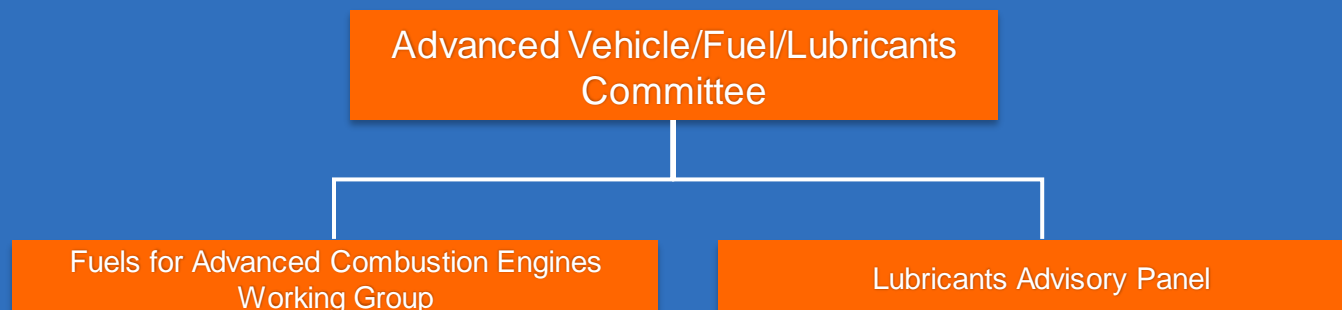


**Co- Chair:**  
**Ivan Tibavinsky,**  
**Mercedes Benz**

- Advanced automotive hardware and new fuel formulation effects on automotive emissions (3-10 years out).
- Durability and operability of new fuel formulations in advanced hardware (3-10 years out).



**Co- Chair:**  
**Steve McConnell,**  
**Marathon**



# Atmospheric Impacts Committee



**Co- Chair:**  
**Sandy Winkler,**  
**Ford**

- Focus resources to improve science and regulations related to air quality
- Improve the ability to predict effects of emissions on air quality by:
  - Improving inventories
  - Understanding air chemistry
  - Strengthening air quality models
- Predict the importance of emerging data



**Co- Chair:**  
**Chris Rabideau,**  
**Chevron**

Atmospheric Impacts  
Committee

Atmospheric Impacts  
Working Group



# Aviation Committee



**Chair:**  
**Dan Kadlecek**  
**ExxonMobil**

- Provide an organization and forum for aviation fuel producers, users and equipment manufacturers, government, and academia to collectively address and fund fuel research.
- Develop the technical information and data required to allow the aviation industry to resolve fuel-related problems and issues.
- Provide a forum for the dissemination of technical information, to foster relationships between the development of industry experts, and to discuss research, problems, issues, and concerns.



**Vice-Chair:**  
**Amy Carico**  
**Airlines for America**



# Emissions Committee



**Co- Chair:**  
**Mike Viola, GM**

- Define effects that changes in automotive hardware, fuel compositions, and their interactions have on automotive emissions related to air quality and air-borne toxics
- Address current and future regulatory needs
- Determine the contribution of vehicle/fuel source emissions to the environment and how current computer models reflect these contributions (RWG)



**Co- Chair:**  
**Paul Loeper,**  
**Chevron**

Emissions  
Committee

Real World Emissions & Emissions  
Modeling Working Group



# Real World Vehicle Emissions & Emissions Modeling Working Group



**Co- Chair:**  
**Jim Baustian,**  
**BP**

- Determine the contribution of vehicle/fuel source emissions to the environment and how current computer models reflect these contributions
- Open Working Group allowing interactions and collaborative projects with agencies & other industry partners



**Co- Chair:**  
**Mike Viola, GM**

Emissions  
Committee

Real World Emissions & Emissions  
Modeling Working Group



# Performance Committee

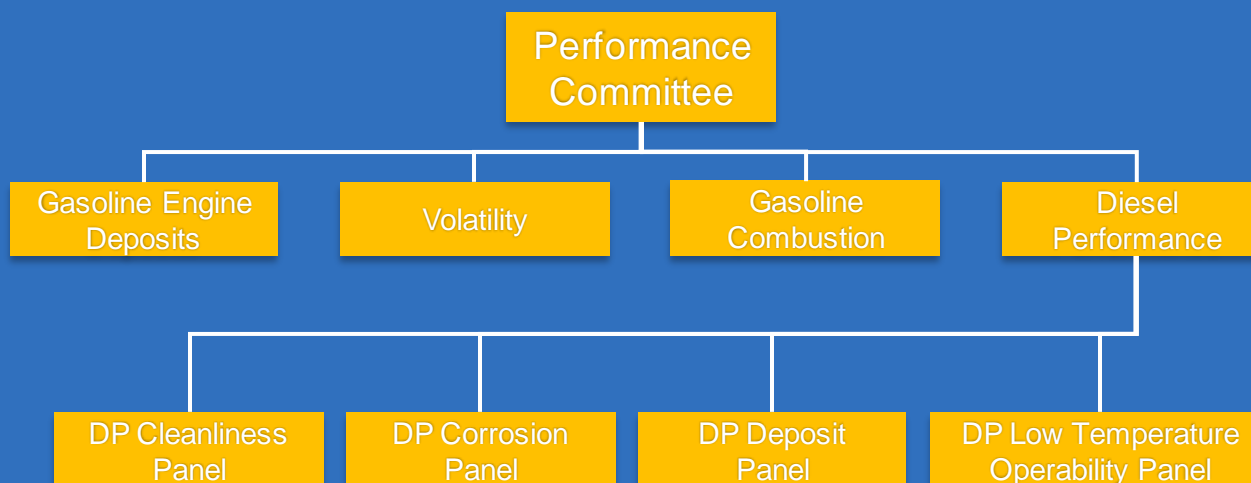


**Co- Chair:**  
**Asim Iqbal,**  
**Stellantis**

- Relate physical and chemical properties of gasoline to vehicle performance
  - Driveability/ Volatility Relationship
  - Octane Response
- Develop engine and vehicle test procedures to use in commerce and regulations and use these procedures to monitor vehicle/ fuel performance.
  - Deposits
  - Driveability Index



**Co- Chair:**  
**Russ Lewis,**  
**Marathon**





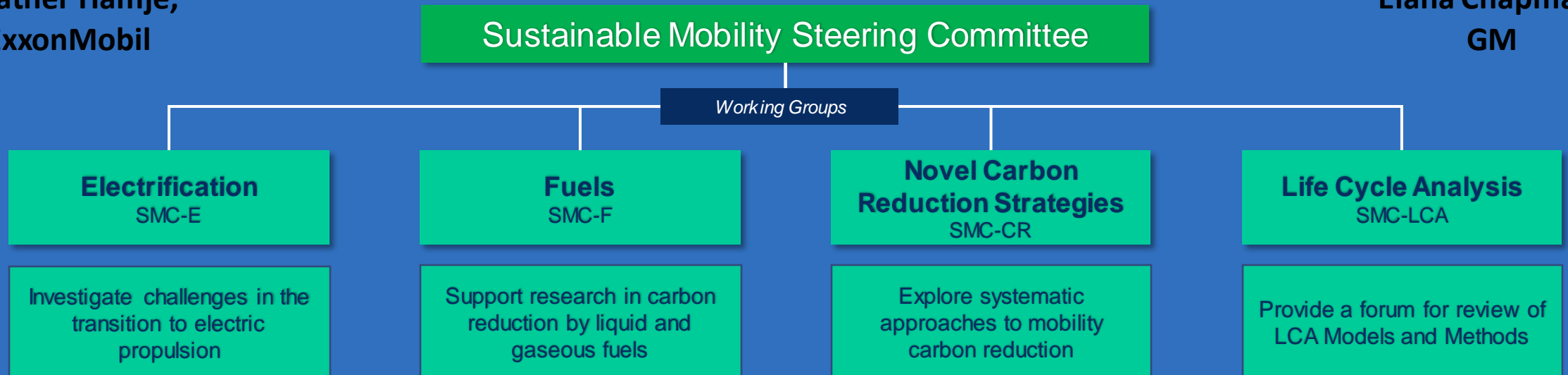
**Co- Chair:**  
**Heather Hamje,**  
**ExxonMobil**

# Sustainable Mobility Committee

A multi-stakeholder forum for collaborative scientific research studies focused on pathways toward carbon neutral future through significant greenhouse gas reductions from mobility while seeking to understand tangential impacts.



**Co- Chair:**  
**Elana Chapman,**  
**GM**



# CRC Workshops & Open Technical Meetings

## **Sustainable Mobility**

1<sup>st</sup> Event: December 2022  
Golden, CO

## **Life Cycle Analysis of Transportation Fuels**

7<sup>th</sup> Event: October 2023

## **Real World Emissions**

33<sup>rd</sup> Event: March 2023  
Long Beach, CA

## **Mobile Source Air Toxics**

10<sup>th</sup> Event: February 2022  
*Virtual*

## **Aviation Committee Annual Meeting**

1<sup>st</sup> Week of May  
2023: Lake Washington, WA  
2024: Alexandria, VA

## **Fuels and Engines: The Road Ahead**

3<sup>rd</sup> Event: October 2020  
*Virtual*

## **Special Events**

Southern California Ozone  
Research Symposium (2018)  
Air Quality Modeling Research  
Needs (2016, 2022)

## **Special Events**

Stochastic Pre-Ignition (2020)  
Driveability (2019)

# CRC Member Groups

## Auto/Oil Program Committees

### Sustaining Members / Board of Directors

#### Oil Companies



#### Auto Companies



## Aviation Committee

### Steering Committee Members



## Sustainable Mobility Committee

### Steering Committee Members



*Expansion in progress*

# CRC Staff



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*née Bougher*  
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Joined CRC: 2016



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Joined CRC: 2017



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Joined CRC: 2005



**Jan Tucker**  
Senior Committee  
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Joined CRC: 1988

# Contact



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