

Agenda



Monday July 8

1:00 - 5:00 p.m.

SAE ARCRP Member Meeting (Invitation Only)

11:00 a.m. - 6:00 p.m.

**Registration Alternate Refrigerant System Symposium
- McDowell Room**

Tuesday July 9

7:00 - 8:00 a.m.

Breakfast - McDowell/Santa Cruz Rooms

8:00 a.m. – 12:00 p.m.

Presentations - Pavilion Room

CO₂ A/C System for the FCHV-4
Kiwamu Inui, Nobuo Kobayashi, Takayoshi Matsuno,
Toyota Motor Corp.; Toshio Hirata, Denso Corp.

HFC-152a Mobile A/C System
Jim Baker, Mahmoud Ghodbane, Delphi Harrison Thermal
Systems

Results from CO₂ Heat Pump Applications
Ullrich Hesse, Zexel Valeo Compressor Europe GmbH

Enhanced R-134a Climate System
Erik Lundberg, Visteon

10 minutes

Refreshment Break

Pro and Con Finding The New Refrigerant
Baroto Adiprasito, Volkswagen; Roland Caesar, DaimlerChrysler

European Mobile A/C Legislation
Matti Vainio

Risk Assessment of Alternative Refrigerants for Motor Vehicle
Air Conditioning Systems
Reva Rubenstein, ICF Consulting; Dave Godwin, U.S. EPA

Global Overview Mobile Air Conditioning
S. O. Andersen, U.S. EPA

12:00 - 1:00 p.m.

Lunch - McDowell/Santa Cruz Rooms

12:45 - 3:00 p.m.

Formal Vehicle Ride

1:30 - 5:30 p.m.

SAE J639 CO₂ Service Fitting Task Force

3:00 - 5:00 p.m.

Informal Vehicle Rides

4:30 - 5:30 p.m.

Summary Overview of Activity for OEM Representatives

6:00 - 8:00 p.m.

Reception/Dinner Hosted by Sponsors - Pavilion Room

Agenda



Wednesday July 10

7:00 - 8:00 a.m.

Breakfast - McDowell/Santa Cruz Rooms

8:00 a.m. - 12:00 p.m.

Presentations - Pavilion Room

Summary 2002 VDA Saalfelden Winter Meeting
Frank Wolf, Obrist

Energy Efficient Thermal System
John Meyer, Visteon Corp.

Lessons Learned from Laboratory Testing of Mobile A/C Systems
Pega Hrnjak, Univ. of Illinois

Overview of SAE Alternate Refrigerant U of I Testing
Bill Hill, General Motors Corp.

10 minutes

Refreshment Break

Elastomer Developments for Sealing Automotive Climate Systems Using Carbon Dioxide
Dale Ashby, Parker Hannifin Corp.

Component Development For CO₂
Joern Froehling, Vipen Khetarpal, Visteon

Flexible A/C Hoses for CO₂ Systems
Carlo Burkhardt, Witzenmann GmbH

High Side Pressure Optimization Transcritical CO₂ Cycles with Work-Extracting Expansion Devices
Hans-Joachim Huff, Yunho Hwang, Reinhard Radermacher, Univ. of Maryland

12:00 - 1:00 p.m.

Lunch - McDowell/Santa Cruz Rooms

12:45 - 3:00 p.m.

Formal Vehicle Rides

1:30 - 5:30 p.m.

SAE J639 CO₂ Service Fitting Task Force

3:00 - 5:00 p.m.

Informal Vehicle Rides

4:30 - 5:30 p.m.

Summary Overview of Activity for OEM Representatives

6:00 - 8:00 p.m.

Reception/Dinner Hosted by Sponsors - Pavilion Room

Agenda



Thursday July 11

7:00 - 8:00 a.m.

Breakfast - McDowell/Santa Cruz Rooms

8:00 a.m. - 12:00 p.m.

Presentations - Pavilion

Transcritical CO₂ Cycle Technology
Eckhard Groll, Purdue Univ.

System and Service Components for Carbon Dioxide Air Conditioning Systems
Greg Haunhorst, H. Ullrich, P. Klug, B. Leisenheimer, G. Rzepka, Eaton Corp.

Leak Detection of R744 (CO₂) in the Production and Service Environment
Mike Ryan, INFICON

Magnetic Refrigeration
C. Zimm, Astronautics

10 minutes

Refreshment Break

Consumer Use of Mobile A/C Systems
Ward Atkinson

Average Mobile A/C Customer Usage Model: Development and Recommendation
Gram S. Duthie, Visteon

The Control of a Transcritical Cycle for Optimum Efficiency
Tim Cowell, Jorgen Rogstam, Andrea Bergami, Delphi Auto

Importance of Transient Modes In A/C System Power Consumption
Christophe Petitjean, M. Ben Yahia, Valeo Climate Control

12:00 - 1:00 p.m.

Lunch - McDowell/Santa Cruz Rooms

12:45 - 3:00 p.m.

Formal Vehicle Rides

1:30 - 5:30 p.m.

SAE J639 CO₂ Service Fitting Task Force (additional items if required)

3:00 - 5:00 p.m.

Informal Vehicle Rides

4:30 - 5:30 p.m.

Summary Overview of Activity for OEM Representatives