# TCP on Advanced Motor Fuels (AMF TCP)

The mission of the AMF TCP is to advance the understanding and appreciation of the potential of advanced motor fuels towards transport sustainability. This is achieved by providing sound information and technology assessments designed to facilitate informed and science-based decisions regarding advanced motor fuels at all levels of decision-making.

#### Main areas of work

- o Assessment of the applicability of new fuels
- <u>Evaluation of fuel efficiency, regulated and unregulated pollutant emissions from specific</u> <u>fuel/engine/vehicle combinations</u>
- o Assessment of best matching fuel/vehicle technologies for specific applications

# Key activities and accomplishments (2017-2018)

- Driving cycle for buses adopted by the Chilean government in Santiago
- Fuel efficiency and tailpipe emissions results contributed to international emissions model
- Using natural gas and biogas and their derivatives in road transport
- AMF fuels/vehicles evaluated and benchmarked against others



Laser measurement equipment. Source: AMF Report "Fuels for Efficiency". © Technion, Israel Institute of Technology



The positive effect of biofuels on vehicle exhaust emissions is more pronounced for older cars than for modern cars, Source and copyright: AMF Special Report "<u>Air quality</u> <u>implications of transport biofuel consumption</u>".

### Priorities and projects (2019 - 2020)

- Lessons learned from Alternative Fuels
  <u>Experience</u>
- <u>The contribution of Advanced</u>
  <u>Renewable Transport Fuels to Transport</u>
  <u>Decarbonisation in 2030 and beyond</u>
- Heavy duty vehicle evaluation
- Methanol as motor fuel
- <u>Real driving emissions & fuel</u> consumption
- GDI engines and alcohol fuels
- <u>Sustainable bus systems phase 2</u>
- Methane emission control

#### Multilateral collaborations

 Joint project with the Bioenergy TCP; co-operation with TCPs on Combustion and Hybrid and Electric Vehicles

Membership

- Interests and priorities for further collaboration include:
  - Efficiency and emissions (Combustion TCP)
  - Emerging fuels (Hydrogen TCP)
  - Fuels for HEVs and FCVs: (HEV and AFC TCPs)
  - o Lessons learned and deployment of new technologies (several TCPs)
  - o Systems analysis (several TCPs)



## Why should your organisation become a member of the AMF TCP?

Advanced motor fuels, applicable to all modes of transport, significantly contribute to a sustainable society around the globe. The AMF TCP provides an international platform for cooperation and exchange of best practices, enabling stakeholders from different continents to pool and leverage knowledge and research capabiliites in the field of advanced and sustainable transport fuels.

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