



HOME | ABOUT | CONTACT | ADVERTISE | THE INTERMEDIA GROUP



- EVENTS
- CAREERS & PEOPLE
- DATA CAPTURE & RFID
- ENVIRONMENT
- GOVERNMENT & REGULATIONS
- HOT PRODUCTS
- MAGAZINE FEATURES ARCHIVE
- MATERIALS HANDLING
- PROPERTIES FOR SALE & LEASE
- PROPERTY NEWS
- SUPPLY CHAIN MANAGEMENT & IT
- TRANSPORT & LOGISTICS SERVICES
- TRUCK & TRAILER EQUIPMENT
- WAREHOUSE/DC EQUIPMENT
- INDUSTRY GROUPS
- NEW / USED TRUCK & TRAILER
- FREE E-NEWS
- ADVERTISE

ARCHIVE SEARCH

News Search

[Advanced Search](#)

[» JOB BOARD](#)

[» HIRING STAFF?](#)

[» PROPERTIES](#)



AUSTRALIAN ENGINEERS CONTRIBUTE TO COPENHAGEN CLIMATE CHANGE CONFERENCE

The Society of Automotive Engineers – Australasia (SAE-A) provided direct input to the official Federation of International Societies of Automotive Engineers (FISITA) submission to COP-15, the international climate change conference now underway in Copenhagen.

SAE-A is a council member of FISITA, which is the world body linking professional automobile engineering societies in 38 countries. SAE-A senior vice president and former president, Prof Harry Watson of Melbourne University, is the society's FISITA delegate and led the Australasian input to the high-level global policy document.

"Australian automotive engineers are amongst industry leaders in developing and deploying technologies to reduce transport emissions," said Prof Harry Watson.

"Australia is at the forefront of a range of advanced technologies and this expertise was valuable in collating the FISITA Cop-15 Communiqué. This document advocates an integrated approach combining joint action by industry, academia, government and consumers, with particular attention to three key areas – fuels and fuel economy, electric vehicles, and traffic management," he said.

Fuels and fuel economy

The FISITA COP-15 Communiqué said automotive engineers are cutting vehicle energy consumption using a wide range of improvements in engines and vehicle technologies such as direct fuel injection, variable valve timing, downsizing, optimised transmissions, lightweight and low friction materials, stop-start-control, regenerative braking, low-energy lighting and others. At the same time, huge investment is being made in developing alternative fuels like biofuels, natural gas, hydrogen and electricity.

Australian engineering innovations include advanced Liquid Petroleum Gas (LPG) and Compressed Natural Gas (CNG) systems being pioneered on freight and bus fleets. Consistent development of LPG for passenger vehicles in Australia is delivering up to a 20% reduction in greenhouse gas emissions, improved drivability and export sales of LPG components. As Australia has national distribution of LPG fuel, these gains are driving growth of LPG vehicles among both fleets and private owners.

Australia is also pioneering bio-based fuels and ethanol E10 and E5 blends are growing in availability.

Electric vehicles

Electric vehicles (EVs) are a focal point for research and development by automotive engineers in the fight to lower CO2 from road transportation. Start-stop systems on conventional internal combustion engine vehicles, mild and strong hybrids, battery electric vehicles with or without range extenders, and ultimately, hydrogen fuel cell electric vehicles all offer improvements in fuel economy.

Energy from the electricity grid can provide a clean, renewable source motive power and reduce consumption of carbon-based fuels. However, the FISITA submission warned that certain technical and policy challenges remain to be solved before EVs can be considered a mainstream solution.

With the production launch of the Toyota Hybrid Camry last week, Australian automotive engineers have joined an international elite with the expertise to combine electric motors and petrol engines in a commercially

LOOKING FOR STAFF?
 Post your job vacancies on TandLnews.com.au job board
 SPECIALIST JOB BOARD FOR T&L powered by supplychainjobz.net
 Enter the code TLNDC2 to receive discount **20% DISCOUNT**

BREAKING NEWS

- ARTC cuts 190 km from Melbourne-Brisbane inland route
- More advances in biofuel-from-thin-air technology
- COAG meets, but no truck regulator decision
- Australian engineers contribute to Copenhagen climate change conference
- 4th Annual Queensland Infrastructure Summit – 18-19 March 2010, Brisbane
- AFGC Retail Ready Toolkit Roadshow – 17 February 2010, Brisbane and Sydney
- Lean, green Australian solution wins over US Chambers of Commerce
- CBFCA NSW Regional Convention 2010 – 26-28 March, Hunter Valley
- Global economic outlook shaky as world shifts from government to private demand
- International Materials Handling Exhibition – 16-19 November 2010, UK

HOT PRODUCTS

Advanced and Economical - new entry level desktop label printer B-EV4

TOSHIBA TEC has added the B-EV4 entry-level desktop label printer to its range of thermal printers. [more»](#)

Fresh approach from ThermoKing

After years of engineering work at state-of-the-art research and development centres worldwide, as well as extensive customer input and exhaustive testing in the lab and on the road, the T-Series has finally been released. [more»](#)

Redefining Industrial Field Mobility

Motorola's latest MC9500-K mobile computer is the next evolution in mobile computing – it leverages the features and functionality of the industry's best-selling Motorola MC9000 mobile computer, where 1.3million units have been sold worldwide. [more»](#)

Direct Couriers delivers SERVICE

Direct Couriers has been operating in the Australian domestic courier market for 25 years. Over the years we have always looked for ways to improve and develop the

BOOKMARK

Keep your career moving with Griffith Business School's Grad Cert in Logistics and Supply Chain Management

INTERMEDIA
VISIT INTERMEDIA SITES

SEARCH

viable solution for the average family.

Traffic management

The FISITA COP-15 document said there is great potential for reducing fuel consumption by up to 60% by improving the efficiency of traffic itself. Traffic management can play a complementary role alongside vehicle innovations in the reduction of overall CO2 emissions, while simultaneously helping to improve the mobility, safety, and efficiency of the transportation infrastructure.

Intelligent Transportation Systems (ITS) enable advanced communications between vehicles and infrastructure. They can help reduce CO2 by enabling optimal route planning and timing, smoothing stop-go driving, reducing congestion, enabling pricing and demand management, and encouraging smart multi-mode transportation, such as Park and Ride.

Australian engineers pioneered many ITS technologies and achieved global first E-Tag Electronic Tolling Systems linked between capital cities, world best-practice standard applications of Computer Linked Traffic Signals and Public Transport Priority Networks, Ramp Metering and Dynamic Route Guidance systems.

Deployment of these technologies is dependent on viable business models. As discussed in the submission, there is a "chicken and egg" situation as private investors cannot expect a return on investment from major ITS projects until critical rates of market penetration are reached. This requires close cooperation between ITS bodies, governments, road authorities, telecommunications providers and the automotive industry.

Public policy

Prof Harry Watson said Australian automotive engineers continue to make progress in reducing transport emissions. "SAE-A members are now delivering lower emissions outcomes than ever before and are committed to pursuing the ultimate goal of zero emissions transport," he said.

"We believe that the role of governments is to regulate to mitigate climate change, to set targets and to provide support. Engineers and industry should be left to pursue the most cost effective technologies to meet those targets.

"Consumer acceptance is also critical to the success of any new vehicle and mobility technology. In setting policy, it is vital that the cost of new vehicles remains affordable for consumers and that community education is facilitated. The effectiveness of these strategies was proven in recent years by the increased consumer acceptance of the importance of the Australasian New Car Assessment Program five star safety rating system," said Prof Harry Watson.

Page

[1](#) [2](#) [3](#)

Tags: [environment](#) [pollution](#) [society-of-automotive-engineers-australia](#)



154

business to best meet the needs of our clients. [more»](#)

[Click here to view more Hot Products](#)
[Looking for a particular product? Advanced Search.](#)

➤ **T&L PUBLICATIONS**



Australasian Freight Logistics

Freight and transport logistics is the next frontier in the drive towards supply chain efficiency...

MHD Supply Chain Solutions

Has been the industry leader for more than 30 years. It is the reference guide for professionals striving for effective end-to-end supply chain management...

Diesel

A bi-monthly magazine that has shaken up the Australian road transport magazine sector with sharp news stories and bold feature articles on the diverse character of the Australian trucking market...

CONTACT

[Advertising](#)
[Editorial](#)

MAGAZINES

[Australasian Freight Logistics](#)
[MHD Supply Chain Solutions](#)
[Diesel](#)

SUBSCRIBE

[Free Email News](#)

VISIT INTERMEDIA SITES

SELECT



© The Intermedia Group. www.intermedia.com.au Privacy & Copyright