

# ANGVA CNG CYLINDER SAFETY WORKSHOP

27th November 2008

Tractors Engineering Complex, Puchong,  
Kuala Lumpur, Malaysia

## WORKSHOP MODULES

Time: 9.00 am - 5.00 pm

### Module I: General Overview of Safety Issues

- Why it is important
- Accidents and analysis - and the need for reporting
- Kit installation approvals, certification of installers.

### Module II: Cylinder 101

- Standards - Philosophy etc., types, certification
- Testing
- Non CNG vs CNG cylinders - the deadly difference
- Rogue and re-manufactured (modified) cylinders - pending doom
- Ground Storage

### Module III: Cylinder Handling and Installation

- Location
- Piping
- Venting
- Mounting brackets
- General Handling

### Module IV : Cylinder Inspection

- Why
- When
- What to look for
- Disposal

## PRESENTER PROFILE



**Bernard James, P.Eng**  
President  
TransEnerTech  
Canada

Bernie has a basic degree in Civil Engineering (Queen's University Kingston Canada), a Masters in Mechanical Eng. (RMCS, UK) and a Masters in Eng. Management (University of Ottawa). After 20 years in Canada's Military where he spent several years as an engineer at the vehicle testing facility and writing technical specification for military vehicles he joined the department of Energy Mines and Resources (later renamed Ministry of Natural Resources Canada (NRCan)). At NRCan he worked in the alternative transportation energy area, the last 10 years of which he was responsible for managing the research and development program in the transportation energy field. He also was the Chairman of the International Energy Agency Implementing Agreement for Advance Motor Fuels - a multi-country cooperative Research Development & Demonstration (RD&D) committee, the first leader of Working Group (WG) 3 in Technical Committee (TC) 58 responsible for developing the ISO 11439 cylinder standard, Chairman of the Canadian NGV Technology Committee and a member of several Canadian Standards Committees on Automotive issues. After retirement Bernie formed his own consulting company, TransEnerTech, and has kept his hand in the alternative fuels technology area. He has worked in Pakistan, Hungary, Peru, and Malaysia on NGV, particularly in NGV standards development. He also keeps up with technology development in the transportation area as a consultant to the Sustainable Development Technology Canada organization. He also consults and collaborates with Powertech Laboratories on NGV and H2 cylinder work.

Bernie has made several presentations on CNG cylinder safety issues. At the IANGV NGV 2008 Conference in Rio De Janeiro Bernie was honored with the "NGV Champion" award for his leadership in alternative fuel public policy, technology innovation, and the advancement of the global natural gas vehicle industry.

## REGISTRATION FORM

### COMPANY NAME AND CONTACT DETAILS

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Invoicing Person:

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Department: \_\_\_\_\_ Job Title: \_\_\_\_\_

Contact No: \_\_\_\_\_ Fax No: \_\_\_\_\_

Email: \_\_\_\_\_

### DELEGATE DETAILS

Delegate (1) Mr ( ) Mrs ( ) Ms ( ) Dr ( ) Others ( ) \_\_\_\_\_

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Job title: \_\_\_\_\_ Department: \_\_\_\_\_

DID/ Mobile No.: \_\_\_\_\_ Fax No: \_\_\_\_\_

Email: \_\_\_\_\_

Delegate (2) Mr ( ) Mrs ( ) Ms ( ) Dr ( ) Others ( ) \_\_\_\_\_

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Job title: \_\_\_\_\_ Department: \_\_\_\_\_

DID/ Mobile No.: \_\_\_\_\_ Fax No: \_\_\_\_\_

Email: \_\_\_\_\_

Delegate (3) Mr ( ) Mrs ( ) Ms ( ) Dr ( ) Others ( ) \_\_\_\_\_

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Job title: \_\_\_\_\_ Department: \_\_\_\_\_

DID/ Mobile No.: \_\_\_\_\_ Fax No: \_\_\_\_\_

Email: \_\_\_\_\_

Organised by:



Asia Pacific Natural Gas Vehicles Association  
Level 2, Block A, Lot 3288 & 3289,  
Off Jalan Ayer Itam, Kawasan Institusi Bangi,  
43000 Kajang,  
Selangor, MALAYSIA  
Tel: +603 8926 1798  
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Email: [angva@angva.org](mailto:angva@angva.org)  
Website: [www.angva.org](http://www.angva.org)

## REGISTRATION FEE

Non Members: MYR 330 / USD100

Members : MYR 230 / USD70

**30% discount for  
ANGVA members**

## HOW TO REGISTER

Fax : +603 8926 1834

Email : [angva@angva.org](mailto:angva@angva.org)

Post:

**Asia Pacific Natural Gas Vehicles  
Association**

Level 2, Block A, Lot 3288 & 3289,  
Jalan Ayer Itam,  
Kawasan Institusi Bangi,  
43000, Kajang,  
Selangor, MALAYSIA

## PAYMENT METHOD

By Telegraphic Transfer to:

**Asia Pacific Natural Gas Vehicles  
Association**

**HSBC Bank Malaysia Berhad**  
Kuala Lumpur Main  
No 2, Leboh Ampang,  
50100, Kuala Lumpur

Account No: 101-792505-101

Swift Code : HBMBMYKL

## PAYMENT POLICY

Full payment is required before the event. Payment bank slip MUST be forwarded to the ANGVA Secretariat via fax or email as a proof of payment. Registration fee includes lunch, refreshments and workshop materials.

Supported by:

