

**4<sup>th</sup> Integer Emissions Summit Brazil 2014**  
**20-22 May 2014**  
**Sheraton São Paulo WTC Hotel, São Paulo, Brazil**

**DAY 1 – 20 May**  
**Commercial Vehicles**

<b>8.45</b>	<b>Chairperson's introduction</b>
<b>Keynote Session 1: Current and future emissions reduction standards for heavy-duty vehicles in Brazil</b>	
<b>9.00</b>	<p><b>Keynote presentation: Current standards and government plans for the next phase of emissions regulations for heavy-duty vehicles</b></p> <ul style="list-style-type: none"> <li>- In-use vehicle inspection and monitoring for successful emissions control and reduction</li> <li>- Potential continuation of PROCONVE standards</li> <li>- Implementation timeline</li> </ul> <p><b>Invited speaker: Paulo Macedo, Coordinator of Waste and Emissions, IBAMA (The Brazilian Institute of Environment and Natural Resource)</b></p>
<b>9.30</b>	<p><b>Presentation: Air quality drivers for more stringent emissions reduction standards</b></p> <ul style="list-style-type: none"> <li>- Air quality issues in Brazil and other Latin American countries</li> <li>- Findings on the impact of stringent fuel and vehicle standards on public health and emissions</li> <li>- Proposal for future improvements</li> </ul> <p><b>Invited speaker: Cristiano Façanha, Program Lead, ICCT (International Council on Clean Transportation)</b></p>
<b>10.00</b>	<p><b>Presentation: Overview of the 'Inovar Auto' tax incentive scheme</b></p> <ul style="list-style-type: none"> <li>- Requirements for light-duty and heavy-duty vehicle manufacturers</li> <li>- Plans for future standards covering fuel efficiency and GHGs</li> </ul> <p><b>Invited speaker: Senior representative, The Ministry of Development, Industry and Foreign Trade</b></p>
<b>10.30</b>	<b>Morning Networking Break</b>
<b>Session 2: Developments in fleet renewal and government incentive schemes</b>	
<b>11.00</b>	<p><b>Presentation: Development of heavy-duty fleet renewal programmes in Brazil</b></p> <ul style="list-style-type: none"> <li>- Collaboration between government bodies and the industry to prioritize fleet renewal</li> <li>- Economic, environmental and safety benefits of fleet renewal</li> </ul> <p><b>Invited speaker: Gabriel Branco, Director and Co-Founder, Environmentality</b></p>
<b>11.30</b>	<p><b>Case study: Vehicle manufacturer experience of fleet renewal in Brazil</b></p> <ul style="list-style-type: none"> <li>- Renewal of public transport in Rio de Janeiro</li> <li>- Economic and environmental motivations</li> <li>- Increased investment and collaboration with local government</li> </ul> <p><b>Invited speaker: Senior representative, MAN Latin America</b></p>
<b>12.00</b>	<p><b>Case study: Global experience of commercial vehicle fleet renewal</b></p> <ul style="list-style-type: none"> <li>- Benefits of government incentive schemes</li> <li>- Proven advantages of fleet renewal in Europe</li> <li>- Global experience applied to the situation in Brazil</li> </ul>

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<b>12.30</b>	<p><b>Panel discussion: Priorities for the heavy-duty commercial vehicle industry in Brazil</b></p> <p>Following the implementation of PROCONVE P7 in 2012, attention of the heavy-duty vehicle industry is now focused on the next stage of legislation. Should a new PROCONVE phase be implemented or should industry stakeholders focus on the benefits that fleet renewal and the 'Inovar Auto' scheme provide? Economic concerns also have a large part to play in the direction that the industry will take, as OEMs cannot comply with tax incentive programmes, fleet renewal and another stage of emissions legislation without more support from government subsidies. This expert panel will share their views on the short-term and long-term direction that the industry should take.</p> <p><b>Invited moderator: Elcio Farah, Executive Director, Afeevas (The Association of Equipment Manufacturers for Vehicle Emissions Control in South America)</b></p> <p><b>Invited panellists:</b>  <b>Gilberto Leal, Senior Manager, Engine and After Systems Development, Mercedes-Benz do Brasil Ltda. *Confirmed</b>  <b>Domingos Carapinha, Chief Engineer, MWM International *Confirmed</b>  <b>Alexandre Parker, Vice President, Governmental &amp; Institutional Affairs, Volvo do Brasil Veiculos Ltda. Senior representative, Scania Latin America</b>  <b>Senior representative, IVECO</b></p>
<b>13.00</b>	<b>Networking Lunch Break</b>
<b>Session 3: Experience and challenges of PROCONVE P7 vehicles</b>	
<b>14.00</b>	<p><b>Presentation: Actual experience of PROCONVE P7 vehicles</b></p> <ul style="list-style-type: none"> <li>- Cost benefits of advanced technology</li> <li>- In-use testing and monitoring</li> <li>- Compliance with the next phase of legislation</li> </ul> <p><b>Invited speaker: Senior representative, Scania Latin America</b></p>
<b>14.30</b>	<p><b>Presentation: Advanced PROCONVE P7 technology integration into the Brazilian market</b></p> <ul style="list-style-type: none"> <li>- Market adoption since 2012</li> <li>- Advantages of the SCR system – costs and fuel consumption</li> <li>- Advanced technology options beyond PROCONVE P7</li> </ul> <p><b>Invited speaker: Senior representative, Cummins</b></p>
<b>15.30</b>	<p><b>Presentation: An update on low-sulphur diesel fuel supply across Brazil to support PROCONVE P7</b></p> <ul style="list-style-type: none"> <li>- Achievements in the nationwide implementation of S10 diesel</li> <li>- Remaining challenges in the phase-out of S1800</li> <li>- Expansion of distribution points</li> </ul> <p><b>Invited speaker: Senior representative, Petrobras</b></p>
<b>15.30</b>	<b>Afternoon networking break</b>
<b>Session 4: Advanced technology options for emissions control in heavy-duty vehicles</b>	
<b>16.00</b>	<p><b>Presentation: Engine technology innovations for optimum emissions reduction</b></p> <ul style="list-style-type: none"> <li>- Technology developments</li> <li>- Improvements to vehicle fuel efficiency and GHG reduction</li> <li>- Further enhancements to comply with future standards</li> </ul>
<b>16.30</b>	<p><b>Presentation: Cost-effective emissions reduction technology compliance in commercial vehicles</b></p> <ul style="list-style-type: none"> <li>- Results of in-use P7 vehicles</li> <li>- Cost benefit analysis of emissions control systems</li> </ul>

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<b>17.00</b>	<b>Presentation: New aftertreatment technologies to meet lower carbon, NOx and PM targets</b> <ul style="list-style-type: none"> <li>- Challenges for the OEM and supplier</li> <li>- Aftertreatment design approach</li> <li>- Integration in the Brazilian market</li> </ul>
<b>17.30</b>	<b>End of Day 1</b>

<b>DAY 2 – 21 May</b> <b>Commercial Vehicles</b>
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<b>8.50</b>	<b>Chairperson's introduction</b>
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<b>Session 5: Emissions reduction standards in Latin America</b>
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<b>9.00</b>	<b>Presentation: Development of emissions standard in Chile</b> <ul style="list-style-type: none"> <li>- Proposed standards for HDV, MDV, LDV and NRMM</li> <li>- Public stakeholder consultation</li> <li>- Implementation timeline and next actions</li> </ul> <p><b>Invited speaker: Marcelo Fernández, Head of Air Quality Division, Ministry of Environment of Chile</b></p>
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<b>9.30</b>	<b>Panel discussion: Emissions regulations developments in Latin America</b> Brazil has lead Latin America in the advancements of emissions control legislation and technology. Now legislative developments are being made in countries such as Chile, Argentina and Colombia. This panel will discuss the opportunities that new standards will bring for those already involved in the market, as well as the feasibility of the harmonisation of fuel quality and emissions values throughout Latin America.
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<b>10.00</b>	<b>Morning Networking Break</b>
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<b>Session 6: Advanced technology practices for emissions reduction in heavy-duty vehicles</b>
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<b>10.30</b>	<b>Presentation: Global experience of fuel efficiency and GHG reduction strategies</b> <ul style="list-style-type: none"> <li>- Experience in European and North American markets</li> <li>- The importance of a reliable GHG measurement system</li> <li>- Potential Euro VI technological path in Brazil</li> </ul> <p><b>Invited speaker: Senior representative, Daimler*Confirmed</b></p>
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<b>11.00</b>	<b>Presentation: Issues surrounding OBD for heavy-duty vehicles</b> <ul style="list-style-type: none"> <li>- Importance of OBD procedures to monitor emissions control</li> <li>- Challenges encountered in global markets</li> <li>- Transition to advanced OBD standards in the future</li> </ul> <p><b>Invited speaker: Senior representative, Volvo</b></p>
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<b>11.30</b>	<b>Presentation: OBD systems and quality sensors in heavy-duty vehicles</b> <ul style="list-style-type: none"> <li>- OBD experience in SCR vehicles</li> <li>- Issues surrounding tampering with systems</li> <li>- Adapting to unique market applications</li> </ul>
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<b>12.00</b>	<b>Networking Lunch Break</b>
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<b>Track 1:</b> <b>Natural gas and biodiesel</b>	<b>Track 2:</b> <b>Non-road mobile machinery</b>
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<b>Session 7: Alternative low emissions solutions for heavy duty transport</b>		<b>Session 7: Global experience of meeting non-road emissions legislation and lessons for Brazil</b>	
<b>13.30</b>	<p><b>Presentation: Impact of the proposed increased biodiesel blend mandate on the commercial vehicle industry</b></p> <ul style="list-style-type: none"> <li>- Status of the proposed B7 mandate</li> <li>- Ensuring product quality in higher blend biodiesel</li> <li>- Potential to introduce B10 and B20 blends in Brazil</li> </ul> <p><b>Invited speaker: Roseangela Moreira de Araujo, Superintendent of Fuels and Biofuels, ANP (National Agency for Petroleum, Natural Gas and Biofuels)</b></p>	<b>13.30</b>	<p><b>Global overview of the NRMM emission reduction legislation and OEM strategy</b></p> <ul style="list-style-type: none"> <li>- Legislation: The driver for cleaner air</li> <li>- The technology options for meeting future NOx and PM limits</li> <li>- OEM plans for meeting Tier 4 (Interim and Final) and Equivalent</li> <li>- Global off-highway sector AdBlue demand forecast</li> </ul> <p><b>Senior representative, Integer Research*<i>Confirmed</i></b></p>
<b>14.00</b>	<p><b>Case study: Vehicle manufacturer experience of alternative fuels</b></p> <ul style="list-style-type: none"> <li>- Cost-effective engine advancements to adopt higher biodiesel blends</li> <li>- Experience of ethanol vehicles</li> <li>- Opportunities and challenges in the use of higher blend biodiesel</li> </ul> <p><b>Invited speaker: Senior representative, Scania Latin America</b></p>	<b>14.00</b>	<p><b>Presentation: Final definitions of PROCONVE MAR-1 for 2015 and beyond</b></p> <ul style="list-style-type: none"> <li>- Breakdown of standards starting in 2015</li> <li>- Certification, monitoring and inspection</li> <li>- Future actions</li> </ul> <p><b>Invited speaker: Senior representative, IBAMA (The Brazilian Institute of Environment and Natural Resource)</b></p>
<b>14.30</b>	<p><b>Presentation: Natural gas technology developments for heavy-duty vehicles</b></p> <ul style="list-style-type: none"> <li>- Status of the natural gas market in Brazil</li> <li>- Experience of natural gas vehicles in international markets</li> <li>- Prospects for increased investment in Brazil</li> </ul> <p><b>Invited speaker: Senior representative, IVECO</b></p>	<b>14.30</b>	<p><b>Case study: Global experience of meeting stringent emissions standards</b></p> <ul style="list-style-type: none"> <li>- Compliance with Tier 4 Final standards</li> <li>- Technology innovations</li> <li>- Potential future standards in Europe and the USA</li> </ul> <p><b>Invited speaker: Senior representative, AGCO</b></p>
<b>15.00</b>	<b>Afternoon networking break</b>		
<b>Light-duty vehicles</b>		<b>Non-road mobile machinery</b>	
<b>Session 8: Advancements in emissions standards and technology for light-duty vehicles</b>		<b>Session 8: Optimum technology routes for compliance with non-road emissions legislation</b>	
<b>15.30</b>	<p><b>Presentation: Legislative update on diesel and gasoline light-duty vehicles</b></p> <ul style="list-style-type: none"> <li>- Integration of PROCONVE L6 diesel vehicles in Brazil</li> <li>- Fuel efficiency requirements in vehicle fleets</li> <li>- Next stage of emissions standards</li> </ul>	<b>15.30</b>	<p><b>Presentation: Preparation for compliance with non-road emissions reduction legislation</b></p> <ul style="list-style-type: none"> <li>- Meeting diverse emissions requirements for non-road vehicles</li> <li>- Optimum homologation and test procedures</li> <li>- Availability of compliant diesel fuel</li> </ul> <p><b>Invited speaker: Roberto Baumann, Director, Agrale S/A</b></p>

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<b>16.00</b>	<p><b>Presentation: Optimum technology options for light-duty vehicles</b></p> <ul style="list-style-type: none"> <li>- Compliance with PROCONVE L6 standards for diesel and gasoline vehicles</li> <li>- Technology advancements</li> <li>- Achievements in fleet fuel efficiency</li> </ul> <p><b>Invited speaker: Henry Joseph, Manager, Engine Tests and Emissions Laboratory, Volkswagen do Brasil</b></p>	<b>16.00</b>	<p><b>Case study: Technical solutions for construction equipment to meet PROCONVE MAR1</b></p> <ul style="list-style-type: none"> <li>- Technology innovations</li> <li>- Impact on operating costs</li> <li>- End-user education</li> </ul> <p><b>Invited speaker: Boris Sanchez, Manager of Sales Engineering, Volvo Construction Equipment Latin America</b></p>
<b>16.30</b>	<p><b>Panel discussion: Emissions reduction developments in the light-duty vehicle and passenger car sector</b></p> <p>PROCONVE L6 emissions standards were introduced for light-duty diesel engines in January 2013 and standards for gasoline engines will follow in January 2014. This panel shares experience of the newly-implemented standards and what could be expected in the future.</p> <p><b>Invited panellists:</b>  <b>Michael Zambon, On Board Diagnostic Technical Expert, For Motor Company</b>  <b>Henry Joseph, Manager, Engine Tests and Emissions Laboratory, Volkswagen do Brasil</b>  <b>Senior representative, AEA</b></p>	<b>16.30</b>	<p><b>Panel discussion: Industry readiness for PROCONVE MAR1 and potential standards throughout Latin America</b></p> <p>The implementation date for emissions standards for non-road machinery and equipment is quickly approaching. This panel will share their views on the upcoming legislation and challenges that the industry is facing.</p> <p><b>Invited panellists:</b>  <b>Daniel Zacher, Manager, Regulatory Affairs, John Deere Brazil</b>  <b>Boris Sanchez, Manager of Sales Engineering, Volvo Construction Equipment Latin America</b>  <b>Ricardo Huhtala, Director, AGCO South America</b>  <b>Thiago Figueiredo, Product Safety and Homologation, CNH Latin America</b>  <b>Roberto Baumann, Director, Agrale S/A</b></p>
<b>17.00</b>	<b>End of Day 2</b>		

<b>DAY 3 – 22 May</b>	
<b>ARLA 32 Forum</b>	
<b>9.15</b>	<b>Chairperson's introduction</b>
<b>Keynote Session 1: Evolution of the ARLA 32 market</b>	
<b>9.30</b>	<p><b>Presentation: Update on ARLA 32 market</b></p> <ul style="list-style-type: none"> <li>- Expansion throughout Latin America</li> <li>- Comparison with other established and emerging markets</li> <li>- Future outlook for the market</li> </ul> <p><b>Senior analyst, Integer Research*Confirmed</b></p>
<b>10.00</b>	<p><b>Presentation: Practical application of ARLA 32 in Brazil</b></p> <ul style="list-style-type: none"> <li>- Adoption of ARLA 32 since 2012</li> <li>- Consumption, mileage and operating costs</li> <li>- Challenges faced in the field</li> </ul> <p><b>Invited speaker: Senior representative, Iveco Latin America Ltda.</b></p>

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<b>10.30</b>	<b>Panel discussion: ARLA 32 market developments</b> The ARLA 32 market in Brazil is seeing signs of growth as more PROCONVE P7 trucks enter the market. This expert panel will discuss their experience over the past 12 months, what challenges they have overcome and what short and long-term expectations they have for the market.
<b>11.00</b>	<b>Morning Networking Break</b>
<b>Session 2: Quality control of the ARLA 32 brand</b>	
<b>11.30</b>	<b>Presentation: ARLA 32 monitoring and quality control across the supply chain</b> <ul style="list-style-type: none"> <li>- ARLA 32 licensee update</li> <li>- Action against counterfeit ARLA 32 and deactivation devices</li> <li>- Certification of bulk equipment</li> </ul> <p><b>Invited speaker: Senior representative, INMETRO</b></p>
<b>12.00</b>	<b>Presentation: Optimum ARLA 32 quality control practices and technology</b> <ul style="list-style-type: none"> <li>- Global experience of ARLA 32 quality control</li> <li>- Ensuring produce integrity across the supply chain</li> <li>- Solutions against the adulteration of ARLA 32</li> </ul>
<b>12.30</b>	<b>Panel discussion: Industry perspectives on ARLA 32 quality control</b> A recent change in legislation means that ARLA 32 product quality assurance is now the responsibility of the truck stop operator, not the ARLA 32 supplier. Ensuring product integrity across the supply chain is a high priority for all those involved in the ARLA 32 market. This panel will examine the weaknesses and bad practices experienced in the market and the action that should be taken to protect the product quality.
<b>13.00</b>	<b>Networking Lunch Break</b>
<b>Session 3: Developments in ARLA 32 supply and distribution infrastructure</b>	
<b>14.00</b>	<b>Case study: The challenges of ARLA 32 distribution in Brazil</b> <ul style="list-style-type: none"> <li>- Logistics issues of ARLA 32 distribution in a Major country</li> <li>- Logistics optimization needed to increase the competitiveness of ARLA 32</li> <li>- Barriers to overcome to increase the ARLA 32 market in Brazil</li> </ul>
<b>14.30</b>	<b>Presentation: Adoption of bulk storage and dispensers for ARLA 32</b> <ul style="list-style-type: none"> <li>- Initiatives to sell ARLA 32 in bulk and by pump</li> <li>- ARLA 32 availability across fuel stations and fleet garages</li> <li>- Costs involved in bringing ARLA 32 to the end customer</li> <li>- Experience in established markets</li> </ul> <p><b>Senior representative, GreenChem Holding B.V. <i>*Confirmed</i></b></p>
<b>15.00</b>	<b>Panel discussion: Developments in the ARLA 32 supply and distribution infrastructure</b> Distribution strategies of industry stakeholders must develop in order to meet growing demand for ARLA 32. As experience in more established markets, a transition to bulk supply and distribution is the best way to meet demand. However certification standards of bulk equipment are needed in order for investment in this new supply method to begin. This panel will address the barriers and challenges that are delaying this vital transition in the market and how they can be overcome.
<b>15.30</b>	<b>Afternoon networking break</b>
<b>16.00</b>	<b>End of Day 3</b>