

The Partnership for Clean Fuels and Vehicles is the leading global initiative promoting better urban air quality through the use of clean fuels and vehicles.

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### MARK YOUR CALENDARS !



FIFTH GLOBAL PARTNERSHIP MEETING TO BE HELD in QUITO, ECUADOR

15-16 February 2007 All PCFV Partners welcome!

Contact [elisa.dumitrescu@unep.org](mailto:elisa.dumitrescu@unep.org)

### Indonesia Joins World's Unleaded Gasoline Countries

After a decade-long campaign and several prior attempts, Indonesia, previously the world's most populous leaded country, has finally phased-out leaded gasoline.

Pertamina, the state-owned oil company, made the ban final in July 2006, just in time for the Better Air Quality conference (BAQ) for Asia hosted in Yogyakarta this month. The PCFV organized a workshop to encourage ongoing fuel and vehicle improvements in the country and an "Unleaded Evening" to celebrate this momentous achievement before the BAQ Asia conference.

This ban is a result of the efforts of several PCFV partners, chief among them the KPBB (Komite Penghapusan Bensin Bertimbel, Joint Committee for Leaded Gasoline Phase-out) that is led by Ahmad "Puput" Safrudin. Further support from the US EPA, the Indonesian Ministry of Environment, CAI Asia, and the PCFV Clearing-House at UNEP made this policy shift in Indonesia a reality. The success in Indonesia has been a true Partnership effort.

With a population of over 200 million people and a considerable number of gasoline vehicles, Indonesia took the decision to go unleaded, starting with Jakarta. Recent tests of gasoline samples by KPBB show that the lead content in gasoline from various parts of the country is below detection limits and blood lead level testing has shown a drop in blood concentration of lead.

KPBB is continuing the promotion of catalytic converters for vehicles.

### PCFV Lead Campaign Receives UN21 Award



In recognition of the Partnership's successful work in Sub-Saharan Africa to date, and the historic phase-out of leaded gasoline on 1 January 2006, the UN has awarded the PCFV Clearing-House team in Nairobi the UN21 award for "Substantive Programme". The Clearing-House is proud to accept this honor on behalf of the PCFV. UNEP Executive Director Achim Steiner has communicated his congratulations to the PCFV: "All involved - both in UNEP - but also among our partners deserve credit for this success." This prestigious award was established in 1996 by the Secretary General to recognize staff innovation and efficiency in program and service delivery. Last year, there were over 60 projects nominated from across the global Secretariat, involving over 450 staff members.

### Yemen Conducts Lead Survey



The Yemen Environment Protection Authority (EPA) recently initiated a series of lead blood level tests for inhabitants of Sana'a, including a group of school children. >> **Read More on page 4**



## African Cities Link Economic Growth and Health to Better Air Quality



With the highest urbanization rates in the world and a rise in private vehicles and road transport, a framework of action is needed to address the effects of deteriorating air quality on the health and economic opportunities available to Africa's urban population. Organized by UNEP along with a number of key partners, the 4-day Regional Conference on Better Air Quality in Sub-Saharan African Cities (BAQ-SSA) held in July was attended by two hundred participants and aimed to combine training, policy, and ministerial sessions to establish attainable actions for cleaner air. Areas of concern were industrial pollution, agricultural and waste burning, mobile sources (including old motor vehicles, poor fuel quality, and infrastructure), and indoor biomass burning.

The conference showed renewed commitment to the establishment and improvement of air quality regimes in countries, with countries requesting that lessons from Accra's air quality programme be shared and replicated throughout Sub-Saharan Africa. In addition, participants discussed cleaner fuels and vehicles following the regional ban on leaded gasoline as of January 2006. The development of an approach to sulphur levels specific to the region, taking into account the economics of investing in refinery upgrades and problems specific to smaller, state-owned refineries in Africa, is needed. For sulphur levels in both gasoline and diesel, it was recommended that: (i) the sulphur reductions that can be achieved without major refinery investments should be done immediately, reducing sulphur levels in fuels by as much as possible with existing facilities. This level may be different in each African sub-region; (ii) the next step lower is a maximum of 500 parts per million (ppm) for both diesel and gasoline, which is an important threshold for running modern vehicles with emission control technologies; (iii) The 50 ppm level will be the long-term goal.

On the vehicles side, participants recommended that new and second-hand vehicles imported into Sub-Saharan Africa should now be equipped with catalytic converters, with restrictions on the age of vehicles. >> **Read More on page 3**

## Central and Eastern Europe

### Promoting 2008 in Bosnia and Herzegovina



Following national-level events in Bulgaria, Turkey and Serbia earlier this year, the Regional Environmental Center and the PCFV Clearing-House collaborated in Bosnia and Herzegovina (BiH) for a national roundtable on leaded gasoline held 6 November in Sarajevo. Although INA and MOL

(Croatian and Hungarian companies respectively) recently acquired Energopetrol, the national fuel distributor, and have introduced EU standard fuels to the market, leaded gasoline is still produced at the Bosanski Brod refinery (in limited quantities) and is also imported from Serbia.

Guidelines on unleaded fuel have been adopted in Sarajevo, and there is national legislation which sets a ban date of 1 January 2010. However, additional efforts at the national level are needed to meet the PCFV campaign deadline of end 2008. Follow-up plans include working with the National Committee on Fuel Quality under the Institute for Measurement and Quality to devise a strategy and awareness campaign to quicken the pace for phase-out in the country.

The presentations and minutes of the Bosnia and Herzegovina roundtable on lead phase-out are available on the REC/PCFV website: <http://www.rec.org/REC/Programs/pcfV/index.html>

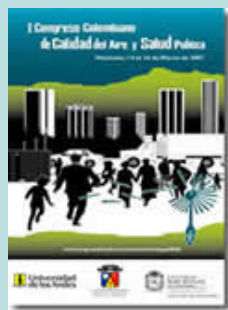
## Latin America & the Caribbean

### Fuel Sulphur in South America

The PCFV is sponsoring a subregional conference focusing on sulphur reduction in fuels and cleaner diesel technologies in the subregion 13-14 February 2007, just preceding the 5th Global Partnership Meeting. In cooperation with PCFV partner CORPAIRE, the initial phase of this work will involve information collection on the status and plans for cleaner fuels, air quality regimes, and vehicles in 12 countries. The data collected will serve as background to the meeting.

The US and Europe are now introducing 10-15 ppm sulphur in diesel. Countries like Brazil, Peru, and Argentina have introduced or plan to introduce 50 ppm diesel either in cities or nationwide by 2009. Other countries like Uruguay, Paraguay, and Venezuela have yet to adopt similar reductions.

### Air Quality in Colombia



PCFV partner organization the National University of Colombia will be hosting the first Colombian Air Quality and Public Health Congress, to be held on March 14 to 16, 2007, at the city of Manizales, Colombia. The meeting will include discussions on cleaner fuels and vehicles, as the National Congress is currently debating a new law to lower fuel sulphur in the country, with a goal of 500 ppm by 2009. The construction of a planned hydrodesulphurization plant has been

postponed twice by the national oil company, Ecopetrol. Meeting information is available at <http://www.ing.unal.edu.co/eventos/casap2006/>. For more information on the event please contact Professor Néstor Rojas, [nyrojas@unal.edu.co](mailto:nyrojas@unal.edu.co)



## Aid Agency Vehicle Fleets Can Do Better



The PCFV Clearing-House and the Fleet Forum are working together to assist humanitarian organizations to reduce their vehicle emissions. The Fleet Forum brings together more than 40 UN agencies, International Organisations, and NGO's. In October the Clearing-House gave a presentation at the FleetForum annual meeting in Amsterdam, which was well received.

The TNT/UNEP Driving Clean interactive CD will be adapted into a tool for humanitarian agencies and a two-day training session to assist humanitarian agencies in the development and implementation of action plans to reduce their emissions will be organized with Fleet Forum.

Reuters news service covered the annual meeting, stating that "Aid agencies spend about \$800 million a year on vehicles, but they could save \$160 million annually -- and many lives -- by training staff in road safety and buying appropriate cars to higher environmental standards..." The 40 organisations represented by the Fleet Forum operate a combined global fleet in excess of 60,000 vehicles. For more information, contact Fleet Forum Coordinator [rob.mcconnell@fleetforum.org](mailto:rob.mcconnell@fleetforum.org).

## UNEP & TNT Tool on Environmental Fleet Management Launched



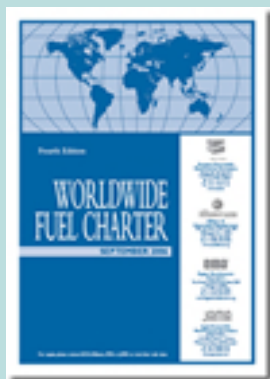
UNEP and TNT have been developing a CD-based toolkit since January 2006, tailored to fleet managers with a proactive eye on the environmental impacts of their operations. The tool provides basic information on the effects of air pollution and climate change, a list of actions that can be taken

to reduce impacts, and a step-by-step plan on how to develop your own "Cleaner Fleet Strategy".

Solutions available to the fleet manager range from improved basic maintenance measures, including regular tyre pressure checks and using the cleanest fuel available, to switching to biofuels and hybrid trucks. The CD also provides users with a spreadsheet that will help to roughly calculate a baseline of the fleet's emissions with examples on possible emission reductions and cost savings that can be achieved by adopting all or some of the available measures.

The CD-toolkit was piloted through a one-day training for TNT's Fleet Management in Turkey on 3rd November. A regional workshop for fleet managers in Africa and another for humanitarian aid agency fleet managers are being planned for 2007. The CD-based toolkit was also presented at the Fleet Forum annual meeting in Amsterdam on 26th October. For more information please contact Max Ahman ([max.ahman@unep.org](mailto:max.ahman@unep.org)).

## Worldwide Fuel Charter Fourth Edition Released



The 4th edition of the Worldwide Fuel Charter has been made available by the Worldwide Fuel Charter committee on behalf of automobile and engine manufacturers worldwide.

The Charter promotes greater understanding of motor vehicle requirements in terms of fuel quality, seeking to minimize emissions and obtain optimal vehicle performance. The Committee upholds the Charter in an

effort to harmonize fuel quality worldwide in accordance with vehicle and engine needs.

The Charter, originally published in 1998, recommends fuel specifications for four categories (with Category 4 as the most advanced) of vehicle technologies, emissions standards, and markets around the world.

This edition highlights that advanced ultra-clean engine and vehicle technologies are becoming increasingly available worldwide with stricter emission requirements, including advanced NOx and particulate treatment systems, and that they require fuel that is free of sulphur and metals to function most effectively.

Download your copy from <http://www.autoalliance.org/environment/>

## >> Central and Eastern Europe, Continued from page 2 Croatia Fuel News

According to the Croatian Ministry of Environmental Protection, Physical Planning and Construction, the new national regulation on fuel quality was adopted in May 2006, according to EU Directive 98/70/EC and Directive 1999/32/EC, including amendments. The national specification on content of lead and sulphur in fuel is now the same as those in EU (.005 g/l), and only lead-free fuel is marketing in Croatia from January 1, 2006. The limit value of sulphur content in fuels is now 50 ppm for both gasoline and diesel and the investment process in the country's refineries (Rijeka and Sisak) has started and will continue to 2012. The total upgrade investment cost will come close to 750 million euros.

## >> Continued from page 2

## African Cities Link Economic Growth and Health to Better Air Quality

A call to allow only 4-stroke motorcycles was made, and existing 2-stroke vehicles should be better maintained.

Regional, sub-regional, and national workshops to develop systems-based programs for cleaner fuels and vehicles with realistic timetables were proposed as the next step.

In a UNEP press release, Achim Steiner, Executive Director of UNEP, said: "We now have a promise to tackle the high level of sulphur in Africa's transport fuels that contribute to particle pollution. Let us forge ones on other vehicle-related pollutants and make ones to end the appalling illness and death rates linked with indoor air pollution." BAQ-SSA outcomes are accessible from [http://www.unep.org/dpdl/urban\\_environment/](http://www.unep.org/dpdl/urban_environment/)



# PARTNERSHIP NEWSLETTER

[www.unep.org/pcfV](http://www.unep.org/pcfV)

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## Welcome to New Partners



The PCFV welcomes the Department of Chemical Engineering of the Universidad Nacional de Colombia. The department is actively involved in air quality issues in the country, having carried out research on air quality and transport systems, roadside exposure to air pollutants in Bogota, particulate emissions from diesel engines running on a biodiesel/diesel mixtures, ethanol production, and catalytic converters. The first Congress on Air Quality and Public Health in Colombia will be organized and hosted by the department, 14-16 March 2007.



Ecogestion, Fundacion para la Gestion Ambiental Sustentable, of Ecuador joined the PCFV as well. The group focuses on improving air quality in Quito and works with PCFV partner CORPAIRE on a range of air quality initiatives in the city.

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### Yemen Conducts Lead survey

Yemen is one of the few countries in the world that uses leaded gasoline almost exclusively. At a recent national televised press conference on the health and environmental impacts of leaded gasoline, the Minister and Deputy Minister of Environment, the EPA Chairman, the Deputy Minister for Transport, and the head of Toyota Yemen were all tested for blood lead content. The benefits of unleaded gasoline and the ease of switching were highlighted. Dr. Zayed Atef, Deputy Director of the Al-Thawara Hospital spoke about the human health costs of leaded gasoline.

Yemen will hold a workshop on the issue of leaded gasoline for policy makers and stakeholders in early 2007. A comprehensive plan will then be developed to help Yemen go gully unleaded by end 2008.

### Up coming Events of note

**South America Sulphur in Fuels Conference**, 13-14 February 2007, Quito, Ecuador, contact [elisa.dumitrescu@unep.org](mailto:elisa.dumitrescu@unep.org)

**5th Global Partnership Meeting of the PCFV**, 15-16 February 2007, Quito, Ecuador, contact [elisa.dumitrescu@unep.org](mailto:elisa.dumitrescu@unep.org)

**I Colombian Air Quality and Public Health Congress**, 14-16 March 2007, Manizales, Colombia, contact [nyrojasr@unal.edu.co](mailto:nyrojasr@unal.edu.co)

**Yemen Lead Phase-out Workshop** 20-21 February 2007, Sana'a, Yemen Contact [shoa.ehsani@unep.org](mailto:shoa.ehsani@unep.org)

**European Commission, CEN, IFQC International Conference on Biofuel Standards**, 28-29 February 2007, Brussels, Belgium For more information contact [conferences@hartenergy.com](mailto:conferences@hartenergy.com)

**The Fifth Asian Petroleum Technology Symposium**, January 23-25, 2007, Jakarta, Indonesia Contact [hanzawa@pecj.or.jp](mailto:hanzawa@pecj.or.jp)

**JPEC-LEMIGAS 1st Petroleum R&D Meeting**, December 20-21, 2006, LEMIGAS, Indonesia Contact [hanzawa@pecj.or.jp](mailto:hanzawa@pecj.or.jp)

### EFOA ETBE Product Bulletin

The European Fuel Oxygenates Association (EFOA), in response to the strong regulatory drive to increase the level of renewable energy used in Europe has published the ETBE Product bulletin. Its aim is to provide specialists and non-specialists with a summary of current information available on ETBE. Today, over 75% of all ethanol being blended in to petrol in the EU is in the form of bio-ETBE (ethyl tertiary butyl ether). For more information, Contact [ETBEProductBulletin@efoa.org](mailto:ETBEProductBulletin@efoa.org)

**THE PARTNERSHIP** for Clean Fuels and Vehicles was established in September 2002 to promote clean fuels and vehicles in developing countries, with Partners from governments, industry, non-governmental organisations, and international organisations.

**THIS NEWSLETTER** is published by the Clearing-House of the Partnership. Please send comments and contributions to [Elisa.Dumitrescu@unep.org](mailto:Elisa.Dumitrescu@unep.org).

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