United Nations Educational, Scientific and Cultural Organization

Sharif University of Technology

UNESCO Chair in Water and Environment Management for Sustainable Cities

کرسی یونسکو در مدیریت آب و محیط زیست برای شهرهای پایدار

شرکت کنترل کیفیت هوا
وابسته به شهرداری تهران
Air Quality Control Company

UNESCO Chair in Water and Environment Management
For Sustainable Cities

together with

Tehran Air Quality Control Company (AQCC) and VERT association of BAT Soot filters

present:

Soot-free Tehran

International workshop on solutions for eliminating Diesel and gasoline emitted soot from urban air

(Background, lessons learned in Europe, solutions for Tehran)

Date: September 7th, 2016
Venue: Kahroba Hall, Electrical Engineering Department, Sharif University of Technology, Azadi Street, Tehran, Iran

(Attendance only by invitation, certification of participation is awarded to attendees)

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Motivation

High air pollution in Iranian cities is of highest concern to authorities in view of public health. PM2.5 is the criteria pollutant and high share of the composition is soot or black carbon. Ultrafine soot particles (UFP) are present in large numbers in the breathing air of Tehran. The anthropogenic sources of PM2.5, soot, and UFPs are combustion engines of mobile emission sources with dominating effects of diesel vehicles.

Several programs at the local and national levels aims at reducing combustion generated particles. The very first Iranian Low Emission Zone (LEZ) for Tehran, diesel particulate filter (DPF) retrofit of public transit buses, elimination of carburetor gasoline motorcycles and replacement with electric bikes are among those mitigating measures. The Iranian government already in April 2014 published a new Emission Legislation which requires DPF for all Diesel Vehicles, which will be implemented in two phases in September 2016 and September 2017.

Vehicle Industries, domestic as well as importing from Europe, Japan or China and emission experts are now challenged to comply according to best available technology.

This conference on Best Available Technologies is directed to support the introduction of Diesel Particle Filters, which are World Wide known as the only technical option to eliminate Ultrafine particles (UFP) efficiently. The conference is organized by UNESCO chair in water and environment management for sustainable cities, co-organize by VERT association of BAT filters and Tehran air quality control. Co.

Vahid Hosseini, Ph.D.
Director of UNESCO Chair
Managing Director of Tehran AQCC

Volker Hensel
CEO VERT-Association
Badenerstrasse 9
CH-5200 Brugg

Agenda	Title	Presenter
8:30- 10:30 **Opening remarks, introduction, and background talks**	Welcome by DOE	Mr. Ing. Ali Rajabi Head of air pollution and climate change office of DOE
	Welcome by Tehran Municipality	Mr. Ing. Hojat Behrooz Vice deputy traffic and transportation Director of boards of Tehran bus company
	Pollution Priorities: Tehran and Iran	Dr.Vahid Hosseini Director of UNESCO chair and AQCC
	Health Effects of Ultra Fine Particles. Why solid particles have highest priority	Dr. J.Schiltknecht
	Lessons Learned in Europe Why elimination of UFP of both diesel and gasoline e is priority in EU?	Dr.Steininger/EU Brussels Mr. Giorgio Martini EU-Commission, Brussels, and EU-JRC, Ispra, Italy
	New Emission Legislation of Iran Getting very close to EU levels of UFP in one big step	Mr. Karsten Mathies TÜV Süd, Germany Moderator of Iran's DPF legislation stakeholder process
11:00 – 11:30	Coffee Break and networking session	
11:30- 13:00 **DPF -Technologies for OE-first fit and retrofit**	Providing clean DPF technology for Iran	Mr. Jorge Soria Galvarro SCANIA
	Potential solution to reduce PM pollution in a big city	Mr. Hidezo Umiyama Director Development & Corporate planning Isuzu Motors Germany
	Experiences of South Korea on diesel particulate retrofit program	Mr. Swane Lee Korea Automobile Environmental Association
	DPF Retrofit in Iran after 2 years of field experiences	Mr. Izanloo, ASA Engineering Co.

13:00 – 14:00	Lunch	
14:00 – 15:30 **Best Available Technology**	The emission elimination potential of catalyzed DPF Technology	Dr.h.c. Andreas Mayer TTM Consulting
	VERT retrofit projects worldwide Based on best available technology	Volker Hensel, CEO VERT
	Inspection and Maintenance to guarantee Emission Stability	Prof. Thomas W.Lutz ETH Zürich
15.30 – 16.30	Q&A	**Expert Panel** Moderation Dr.V.Hosseini