

11th ETH Conference on Combustion Generated Nanoparticles

The Swiss Federal Office for the Environment is Patron of this Conference

Zurich, 13th - 15th August 2007

Conference Venue: Zürich ETH Zentrum, Main Building, Room HG E7

Welcome-Party Sunday 7.00 pm – 10.00 pm, ETH Zentrum, Cafeteria Polyterrasse

Conference Registration Monday 8.00 am

see www.nanoparticles.ethz.ch

Agenda of Presentations

Welcome and Key-Lectures	Monday 13th August - 09.00
Burtscher H./ FHNW, Switzerland <i>Welcome !</i>	
Kasper M. /Matter Engineering, Switzerland <i>Housekeeping Announcements</i>	
Cerny Th./ Swiss Cancer League, Kantonsspital St.Gallen <i>Combustion Particles and Preventive Measures against Cancer</i>	
De Santi G./ European Commission DG-JRC, Italy <i>Particle Emissions from Vehicles: EU Policy Development and Contribution of Research</i>	
Konstandopoulos A./ Center for Research and Technology Hellas, Greece <i>Transport and Reaction Phenomena in Diesel Particulate Filters</i>	
Session 1A: Fundamentals (1)	10.20 - 11.00
Chairman: C.-D. Schegk	
Davoodi P. / University of Karlsruhe, Germany <i>Catalytic Oxidation of Carbon Aerosols: Influence of the Pt-C Interparticle Contact on the Kinetic Parameters (E_a and k_0)</i>	
Kureti S. / University of Karlsruhe, Germany <i>Mechanism of the Catalytic Soot Oxidation on Fe₂O₃</i>	
COFFEE BREAK	11.00 - 11.30
Session 1B: Fundamentals (2)	11.30 - 12.50
Chairman: C.-D. Schegk	
Goto Y. / NTSEL, Tokyo <i>Composition Analysis of Fine Particles from Diesel Vehicles using PIXE</i>	
Duplissy J. / PSI Villigen, Switzerland <i>Influence of Photooxidation and Oligomerisation on the Hygroscopicity and Volatility of 1, 3,5-Trimethylbenzene SOA</i>	
Pratsinis S.E. / ETHZ, Switzerland <i>Agglomerate Dynamics at High Concentrations</i>	
Rossi M. / EPFL Lausanne, Switzerland <i>The Reaction of Flame Soot with Nitrogen Oxides (NO₂, NO₃, N₂O₅, HONO, HNO₃): a brief Overview of the Chemistry</i>	
LUNCH	12.50 - 14.00

Session 2: Emissions Onroad and Nonroad

Chairman: K. Boulouchos

14.00 - 15.40

Astorga-Lloréns M.C. / European Commission DG-JRC, Italy

Effect of Biodiesel Fuels on Emissions from EURO 4 Passenger Cars

Gautam M. / West Virginia University, USA

Growth of Diesel Exhaust Particulate Matter in a Ventilated Mine Tunnel

Hagen D. / University of Missouri-Rolla, USA

An Advected Plume Study of Commercial Aircraft Take-off PM Emissions

Lauer P. / MAN, Germany

Internal Reduction and in Service Measurements of PM from large 4-Stroke Diesel Engines

Kirchen P. / ETHZ, Switzerland

*Measurement of the Instantaneous In-Cylinder Soot Concentrations and Temperatures in a Multi-Cylinder Diesel Engine***POSTER SESSION****and COFFEE BREAK****15.40 - 17.00****Session 3: Instrumentation**

Chairman: H. Burtscher

17.00 - 18.45

Hauser G. / University Wolfenbüttel, Germany

Smoke Particle Sensors for OBD and High Sensitive Measurements

Horn H.G. / TSI, Germany

Tail-Pipe Measurements of Emissions from LD Vehicles with Diesel Engines: A Direct Comparison of Five Different Measurement Methods

Mamakos A. / Aristotle University, Greece

A Revised Data Inversion Algorithm for the Dekati's Mass Monitor

Reavell K.St.J. / Combustion, UK

Calibration of Fast Electrical Mobility Spectrometers for Engine Particulate Measurement

Sakurai H. / AIST, Japan

*Primary Standard for Aerosol Particle Number Concentration***APERRO****18.45****DINNER PARTY invited by Sponsors****19.30*****Dinner-Speaker: Dr. Rudolf Kasper / USM - frequent participant***

Tuesday 14th August 2007

Session 4A: Health Effects (1)	08.30 - 10.10
Chairman: P. Gehr	
Kuenzli N. / ICREA, Spain <i>Traffic Related Pollution: Risk Factor for the Development of Cardiovascular Diseases?</i>	
Gerlofs-Nijland M.E. / RIVM Bilthoven, The Netherlands <i>Multi-Centre Health Effect Studies on Inhaled Combustion Derived (Nano)Particles in Rats and Humans</i>	
Wenger D. / EMPA, Switzerland <i>Secondary Effects of Catalytic Diesel Particulate Filters: Reduced Emissions of Potential Endocrine Disruptors</i>	
McDonald J.D. / LRRRI, USA <i>Contributions of Carbonaceous (Nano) Particulate and Non-Particulate Components to Health Hazards of Engine Emissions</i>	

COFFEE BREAK**10.10 - 10.40**

Session 4B: Health Effects (2)	10.40 - 12.00
Chairman: P. Gehr	
Limbach L.K. / ETHZ, Switzerland <i>Exposure of Engineered Nanoparticles to Human Lung Epithelial Cells: Influence of Chemical Composition and Catalytic Activity on Oxidative Stress</i>	
Setyan A. / EPFL Lausanne, Switzerland <i>Assessment of Particulate Exposure and Surface Characteristics in Association with Urinary Levels of Oxidative Stress Biomarkers</i>	
Stoeger T. / GSF Neuherberg, Germany <i>Differentiation between Sources of Particle-induced Oxidative Stress: Surface Area Versus Organic Compounds</i>	
Kasper M. / Matter Engineering, Switzerland <i>PM10-TEQ - Approach to a Health-Oriented Descriptor of Particulate Air Pollution</i>	

Panel Discussion on Health Effects**12.00 - 12.45**

moderated by P.Gehr

LUNCH**12.45 - 14.00**

Session 5A: Particle Reduction by Aftertreatment (1)	14.00 - 15.50
Chairman: D. Kittelson	
Kohli J. / Corning, USA <i>Diesel Particulate Control Technology in Review</i>	Key-Lecture
Bugarski A. / NIOSH, USA <i>Characterization of the Physical and Chemical Properties of Diesel Aerosols in an Under-ground Mine Laboratory</i>	
Heeb N. / EMPA, Switzerland <i>Secondary Effects of Catalytic Diesel Particulate Filters: Assessment of the PCDD/F Formation Potential</i>	
Hohl Y. / ETHZ, Switzerland <i>Heavy Duty Vehicle Emissions Retrofit Kit</i>	
Khair M. / SWRI, USA <i>Beijing Pilot Retrofit - Real World PM Reduction from Three Retrofit Technologies</i>	

POSTER SESSION**and COFFEE BREAK****15.50 - 16.50**

Session 5B: Particle Reduction by Aftertreatment (2)	16.50 - 18.30
Chairman: M. Mohr	
Vojtisek-Lom M. / Uni Liberec, Czech Republic <i>Real-time, on-road Measurements of Diesel Exhaust Aftertreatment Device PM Removal Efficiency</i>	
Lehtoranta K. / ECOCAT, Finland <i>Reducing Diesel Particle Emissions by Particle Oxidation Catalyst</i>	
Kittelson D. / University of Minnesota, USA <i>Effect of Fuel and Lube Oil Sulfur on the Performance of a Diesel Exhaust Gas Continuously Regenerating Trap</i>	
Bosteels D. / AECC, Belgium <i>Application of the PMP Methodology to Measure the Particle Number and Particulate Mass Emissions of a Heavy-Duty Engine</i>	
Zuberi B./ GEO2 Technologies Inc., USA <i>Advanced High Porosity Ceramic Honeycomb Wall Flow Filters</i>	

APERO - Invited by Exhibitors**18.30**

Wednesday, 15th August 2007

Session 6: Legislation	08.30 - 10.20
Chairman: G. D'Urbano	
Sadler L. / Sadler Consultants, Germany <i>Policies driving the Use of Diesel Particle Filters in Europe</i>	Key-Lecture
Ayala A. / CARB, USA <i>A California Assessment of PMP for Determination of Diesel Particle Emissions</i>	
Barrios C. / Conama, Chile <i>Emission Standard Setting Process for Stationary Generators in Chile</i>	
Giechaskiel B. / European Commission DG-JRC, Italy <i>Particle Measurement Program (PMP) Light Duty Inter-Laboratory Exercise: Final Results</i>	
Zaw-Mon M. and Guy J, / EPA, USA <i>Update on The US Diesel Retrofit Program</i>	

COFFEE BREAK**10.20 - 10.50**

Session 7: Ambient Air and Climate	10.50 - 12.30
Chairman: R. Gehrig	
Arnold F. / MPI Heidelberg, Germany <i>Combustion Generated Gaseous Nanoparticle Precursors in the Polluted and Remote Atmosphere at Altitudes between 0 and 13 km: Atmospheric Nanoparticle Formation</i>	
Prévôt A. / PSI Villigen, Switzerland <i>Overview of the Particulate Matter Composition in Various Regions of Switzerland</i>	
Lanz V. / EMPA, Switzerland <i>Source Apportionment of Submicron Organic Aerosols at an Urban Background Site in Zürich, Switzerland</i>	
Braun A. / EMPA, Switzerland <i>Carbon Functional Groups Identification and Source Apportionment of Fine Particulate Matter</i>	
Weingartner E. / PSI Villigen, Switzerland <i>Impact of Black Carbon on Climate: Interaction of Soot Containing Particles with Clouds</i>	

Closing Remarks: Prof. Dr. K. Boulouchos**12.30****Lunch****12.40**

Focus-Event (German Language):**Feinstaub in urbaner Luft (1)****14.00 - 15.40**

Einführung und Moderation: P. Straehl

Rapp R. / Universität Basel

Gesundheitliche Aspekte von Feinstaub-Belastungen: Neue Resultate

Brunner J. / Umwelt und Gesundheitsschutz Zürich

Partikelmissionen in der Stadt Zürich

Imhof D./Switzerland

*Potenziale der Nachrüstung von Partikelfiltersystemen in Zürich***Kaffee – Pause****15.40 - 16.00****Focus-Event (German Language):****Feinstaub in urbaner Luft (2)****16.00 - 17.15**

Nussbaumer T. / Verenum

Beitrag der Holzfeuerungen zur Feinstaub-Belastung: Arten von Feinstaub, gesundheitliche Aspekte, Hochrechnungen und Minderungspotenzial

Bisig R. / Landwirtschaftsamt Kanton Zug

Förderung der Partikelfilter bei schweren landwirtschaftlichen Fahrzeugen

Minger J. / BAFU

*Prioritäten der Bundesbehörden, Umsetzung Aktionsplan zur Partikelminimierung***Ende der Gesamt-Veranstaltung****17.15**

POSTERS (Foyer Eo and E South)

1.	Andersson J.	<i>PMP Light-duty Inter-lab Exercise: Interesting Observations and Lessons Learned</i>
2.	Asano I.	<i>Solid particle penetration calibration for VPR in the SPCS</i>
3.	Ayala A.	<i>Nanoparticles from a California In-use Heavy Duty Diesel Truck Equipped with PM-NOx Retrofits</i>
4.	Bergamin N.	<i>"Emergency Regeneration" of DPF with glycol</i>
5.	Bernemyr H.	<i>Number Measurements and Size Dependent Volatility Study of Diesel Exhaust Particles</i>
6.	Braun A.	<i>Formation of Solid Intermediate Films on Spherical Particles</i>
7.	Braun A.	<i>Application of small Angle and wide Angle X-ray scattering for the Characterization of Carbonaceous Materials, Aerosols, and Particles</i>
8.	Büchel R.	<i>Two-nozzle Flame Synthesis of Pt/Ba/Al₂O₃ for NOx storage</i>
9.	Burtscher H.	<i>Nanoparticle Filtration for Vehicle Cabins</i>
10.	Chirico R.	<i>PC Rhine Valley: Spatial Gradients of Particle Composition in the Rhine Valley</i>
11.	Czerwinski J.	<i>Particle Emission Reduction of 2-S Scooters with different technical measures</i>
12.	Czerwinski J.	<i>Catalyst Ageing and Particle Emissions of 2-S Scooters</i>
13.	Czerwinski J.	<i>(Nano) Particles Filtration of PM-Catalysts</i>
14.	Czerwinski J.	<i>VERT dPN - a Quality Verification Procedure for Combined Diesel Aftertreatment Systems DPF + SCR</i>
15.	Dreher W.	<i>Identification of Traffic-Related PM₁₀ Sources at a High Traffic Site in Stuttgart, Germany</i>
16.	Erich E.	<i>Reduction of Soot Emissions from Small Scale Furnaces</i>
17.	Fierz M.	<i>An improved thermodenuder design</i>
18.	Fierz M.	<i>Theoretical and Experimental Evaluation of a Portable TEM Sampler</i>
19.	Furger M.	<i>Determination of Trace Elements in Ambient Aerosols by Synchrotron XRF</i>
20.	Gäggeler K.	<i>Online IC-MS measurements of organic acids in aerosols and the gas phase in Roveredo</i>
21.	Herich H.	<i>Aerosol Chemical Composition and Hygroscopic Growth - First Results from Field Studies.</i>
22.	Hohl Y.	<i>Heavy Duty Vehicle Emissions Retrofit Kit</i>
23.	Imhof D.	<i>The Benefit of Particle Filter Systems for Improving Kerbside Air Quality</i>
24.	Isella L.	<i>Particle Transport and Dynamics in a Full Dilution Tunnel of Diesel Vehicle Emissions</i>

25.	Kammermann L.	<i>Hygroscopic Growth and Chemical Composition: First Results from Combined Measurements with an HTDMA and an ATOFMS</i>
26.	Kasper M.	<i>Conformity of Production Testing for Particle Traps - a Model Experiment</i>
27.	Kasper R.	<i>FAP after 110'000 Kilometers - a Case Study</i>
28.	Kindler Ph.	<i>Particle Emissions from Waterpipes</i>
29.	Kraft M.	<i>Modelling Particle Shape and Composition of Soot Particles in Laminar Premixed Flames</i>
30.	Landis M.	<i>Particulate Filters on Tractors</i>
31.	Leutert G.	<i>SNR 277205 - Swiss Rule for Testing Particle Filter Systems</i>
32.	Mandal B.K.	<i>Transient Modelling of Soot Formation and its Burnout in Confined Co-Flow Methane-Air Diffusion Flame</i>
33.	Mayer A.	<i>Properties of particle filters after long term real world operation</i>
34.	Meyer N.	<i>Steady State and Transient Vehicle Emissions Measured Using a Diffusion Size Classifier</i>
35.	Mühlfeld Chr.	<i>The relative deposition index: A novel quantitative method to analyze the distributions of nanoparticles within tissues and cells - Theory and Practice</i>
36.	Niemi S.	<i>Effects of Injector Tips on the Exhaust Particle Size Distribution of a Common-Rail Non-Road Diesel Engine</i>
37.	Oh Kwang Chul	<i>An Experimental Study of PM Emission Characteristics of Commercial Diesel Engine with SCR System to meet EURO-</i>
38.	Reith J.	<i>Features and Advantages of a new Engine Exhaust CPC (EECPC), TSI Model 3790</i>
39.	Rothen-Rutishauser B.	<i>Risk assessment of nanoparticle exposure at working places</i>
40.	Rubino L.	<i>Activities for the Development of an Official Test Method for On-board PM Measurements from Heavy-Duty Diesel Engines</i>
41.	Sandradewi J.	<i>Quantification of Wood Burning versus Traffic Contributions to Particulate Matter during a Winter Period in an Alpine Valley</i>
42.	Schlatter J.	<i>Portable Particle Counter for Engines with Diesel Particle Filter</i>
43.	Steinle P.	<i>Measurement of Ultra Fine Aerosols at Workplaces in Switzerland</i>
44.	Stojicic N.	<i>Bioreactivity of combustion generated particulate matter (diesel and flame exhaust) in bacteria and in human immune cells</i>
45.	Swanson J.	<i>Effect of Controlling Dilution Air Quality on Different Emissions Measurements</i>
46.	Symonds J.P.R.	<i>A Comparison of Real-Time on -road Diesel particulate emission with Chassis Dynamometer Measurements</i>

47.	Ulrich A.	<i>Identification of storage and release effects of sulphate artefacts on diesel particle filter systems after longterm use</i>
48.	Wahl C.	<i>Comparison of Nanoparticle Formation caused by Leaded and Unleaded Aviation Gasoline Combustion</i>
49.	Weimer S.	<i>Characterisation of the Mass Spectra of Fine Particulate Matter emitted from Wood Burning Emissions</i>
50.	Zahoransky R.	<i>Emissions and their Biological Impact of Diesel Engines Fuelled by Non-Esterified Plant Oils</i>

SPONSORS

ETH-Conference on Combustion Generated Nanoparticles 2007

- AKPF Arbeitskreis der Partikelfilter-Hersteller, Wien
- AWEL Amt für Abfall, Wasser, Energie und Luft, Kanton Zürich
- BAUMOT Baumot AG, Fehraltorf, Schweiz
- BFE Bundesamt für Energie, Bern
- BAFU Bundesamt für Umwelt, Bern
- CAMBUSTION Cambustion Ltd. / Cambridge
- CARB California Air Resources Board, CA, U.S.A.
- CPK Car Parts Kuhn / Münster
- DEZA Direktion für Entwicklung und Zusammenarbeit, Bern
- DINEX DINEX A/S, Middelfart, Dänemark
- EV Erdöl-Vereinigung, Zürich
- GILLET Heinrich Gillet GmbH & Co.KG, Edenkoben, Deutschland
- HORIBA Horiba Ltd, Kyoto, Japan
- HJS / DES Fahrzeugtechnik GmbH & Co, Menden, Deutschland
- HUG Hug Engineering SA, Rätterschen, Schweiz
- HUSS Huss Umwelttechnik GmbH, Nürnberg
- INNOSPEC INNOSPEC Limited, Herne, Deutschland
- JMC Johnson Matthey GmbH, Sulzbach/Taunus, Deutschland
- KREBSLIGA Krebsliga Schweiz / Bern
- LIEBHERR Liebherr Machines Bulle S.A., Schweiz
- MANN+HUMMEL Mann&Hummel GmbH, Speyer, Deutschland
- Matter Engineering Matter Engineering AG, Wohlen, Schweiz
- METAS Bundesamt für Metrologie und Akkreditierung, Bern-Wabern
- RHODIA Rhodia Electronics & Catalysis, La Rochelle, France
- SHELL Shell Deutschland, Hamburg
- TSI TSI GmbH, Particle Instruments, Aachen, Deutschland
- UGZ Umwelt- und Gesundheitsschutz der Stadt Zürich

INDEX OF EXHIBITORS (Foyer D South)

	<p>Since 1983 Hug Engineering AG in Rätterschen, Switzerland, has been successfully developing, engineering and manufacturing catalytic soot particle filters and NOx reduction systems.</p> <p>Hug Engineering provides standardised and customised emission reduction solutions for: diesel and gas engines, biogas and bio-oil engines, boilers, incinerators. Hug Engineering has agencies all over Europe, USA, Canada and Southeast Asia. Products of Hug are installed in locomotives, construction machines, trucks, busses, marine, yachts, power plants, and greenhouses. Trademarks of Hug products are: mobiclean, nauticlean, combiKat, COdiNOx.</p> <p>Visit Booth #20</p>
	<p>Matter Engineering provide the latest nanoparticle measurement and nanoparticle generation solutions. Their expertise also includes nanoparticle: sampling, dilution and characterisation.</p> <p>Matter Engineering's nanoparticle measurement and generation systems are used in test benches of automotive and filter manufacturers around the world and other markets developing. The instruments are recognised for their position at the forefront of nanoparticle management, they have a high quality standard and are robust and easy to use.</p> <p>Matter Engineering also understands that many people are still discovering their nanoparticle needs and provide various services to help companies achieve this goal. Products include: NanoMet-C, REXS and DiSC</p> <p>Visit Booth #18</p>
	<p>MANN+HUMMEL, development partner and series supplier to the international automotive and mechanical engineering industries, is committed to the reduction of emissions. In addition to the diesel particulate filter, the company product range also includes:</p> <p>Crankcase Ventilation Systems</p> <p>Air Cleaners</p> <p>Preliminary fuel filter and Centrifuges</p> <p>The MANN+HUMMEL range of products for the reduction of emissions is suitable both for OEM producers and the retrofit market.</p> <p>Visit Booth #7</p>




 <p>TSI GmbH Neuköllner Str. 4 52068 Aachen Germany Tel. +49 241 52303 0 Fax +49 241 52303 49 http://particle.tsi.com</p>	<p>TSI develops particle instruments setting the standards – around the world - for highest performance and accuracy. Our complete offering covers sizing, counting, generating and dispersing particles for a wide variety of applications, including vehicle emissions testing, combustion studies, atmospheric aerosol measurement, health effects research, drug delivery development, air filter testing, biological aerosol detection, nanomaterial synthesis, and much more.</p> <p>Continuously expanding, TSI owns offices in four European countries and is represented in many others. Please visit our booth to learn about our new products and discuss how we might be able to serve your aerosol measurement needs.</p> <p>Visit Booth #19</p>
	<p>Keep clean! For more than 20 years, the medium-sized company BAUMOT AG has been active in the fields of diesel engines and drive technology in addition to diesel particulate filter original equipment and retrofitting. The company has a reputation for its high-quality diesel particulate filters, its expert advice and reliable service organization.</p> <p>The all-rounder. Construction machines, buses, trucks, commercial vehicles, tractors and ships smoke less thanks to the BAUMOT-DPF system. Or have even stopped completely.</p> <p>99% less exhaust emissions. Independent testing centers have performed exhaust analyses for us and have confirmed the following reductions in stable NO_x emissions:</p> <ul style="list-style-type: none"> - 99% less particulate matter (PM), - 96% less carbon monoxide (CO) - Complete elimination of carcinogenic hydrocarbons (HC) <p>Visit Booth #17</p>
 <p>• CAMBUSTION •</p>	<p>Cambustion's DMS instruments were the first, and remain the fastest, real-time ultrafine particle spectrometers. They allow measurement of transient engine particulate emissions (size, number and mass) with automatic accumulation/nucleation mode identification, and feature a fully integrated 2-stage dilution system.</p> <p>The Diesel Particulate Generator (DPG) allows DPF testing without requiring an engine dynamometer. This provides economic and repeatable loading of DPFs with soot from diesel combustion & provides automatic testing of backpressure characteristics and filtration efficiency.</p> <p>Cambustion also manufacture fast-response gas analysers (HC, NO_x, CO & CO₂) with millisecond response times. The equipment is used worldwide for transient emissions measurement.</p> <p>Visit Booth #9</p>

 <p>Particle Technology</p> <p>Palas® GmbH Greschbachstrasse 3 b 76229 Karlsruhe Germany Tel: +49-(0)7 21-9 62 13-0 Fax: +49-(0)7 21-9 62 13-33 Homepage: www.palas.de</p>	<p>The Palas® GmbH was established and started operations in 1983. For more than 20 years, the name Palas® has been famous for technical competence and new ideas in the field of particle technology and filter testing.</p> <p>Palas® develops and builds aerosol generators, particle measuring devices, dilution systems, complete filter test rigs and special developments - for many applications e.g. in the automobile industry, chemistry technology, pharma/medicine or environmental technology. The company offers also services as well as annually taking place training courses and seminars.</p> <p>Visit Booth #21</p>
	<p>The Notox DPF is made of Silicon Carbide (SiC), which combined with the outstanding thermal properties, secures a filter monolith that outperforms competing technologies in unmatched durability, filtration efficiency and fuel economy.</p> <p>Notox has extensive experience in manufacturing extremely durable and high-performance Silicon Carbide DPFs for OEM and retrofit purposes for the entire range from Light Duty to Heavy Duty vehicles.</p> <p>The Notox ceramic technology comprises a thorough understanding of the chemical and physical reactions involved in creating a highly porous structure of recrystallized Silicon Carbide. Notox has considerable expertise in the development of highly automated state-of-the-art production facilities.</p> <p>Visit Booth #8</p>
	<p>Dekati Ltd. designs, manufactures and markets innovative high tech instrumentation for fine particle measurement and sampling. Dekati's fine particle measurement instruments include devices for a wide range of different measurement needs including particle size and charge distribution, number and mass concentration. Together with a comprehensive selection of dilution and conditioning instruments Dekati can provide complete solutions for several different types of applications including combustion and automotive exhaust measurements, air quality monitoring and pharmaceutical inhaler studies.</p> <p>Visit Booth #22</p>

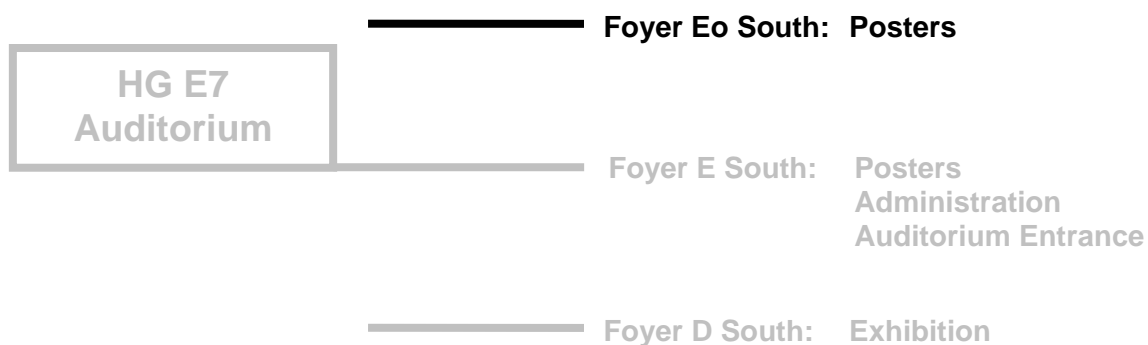
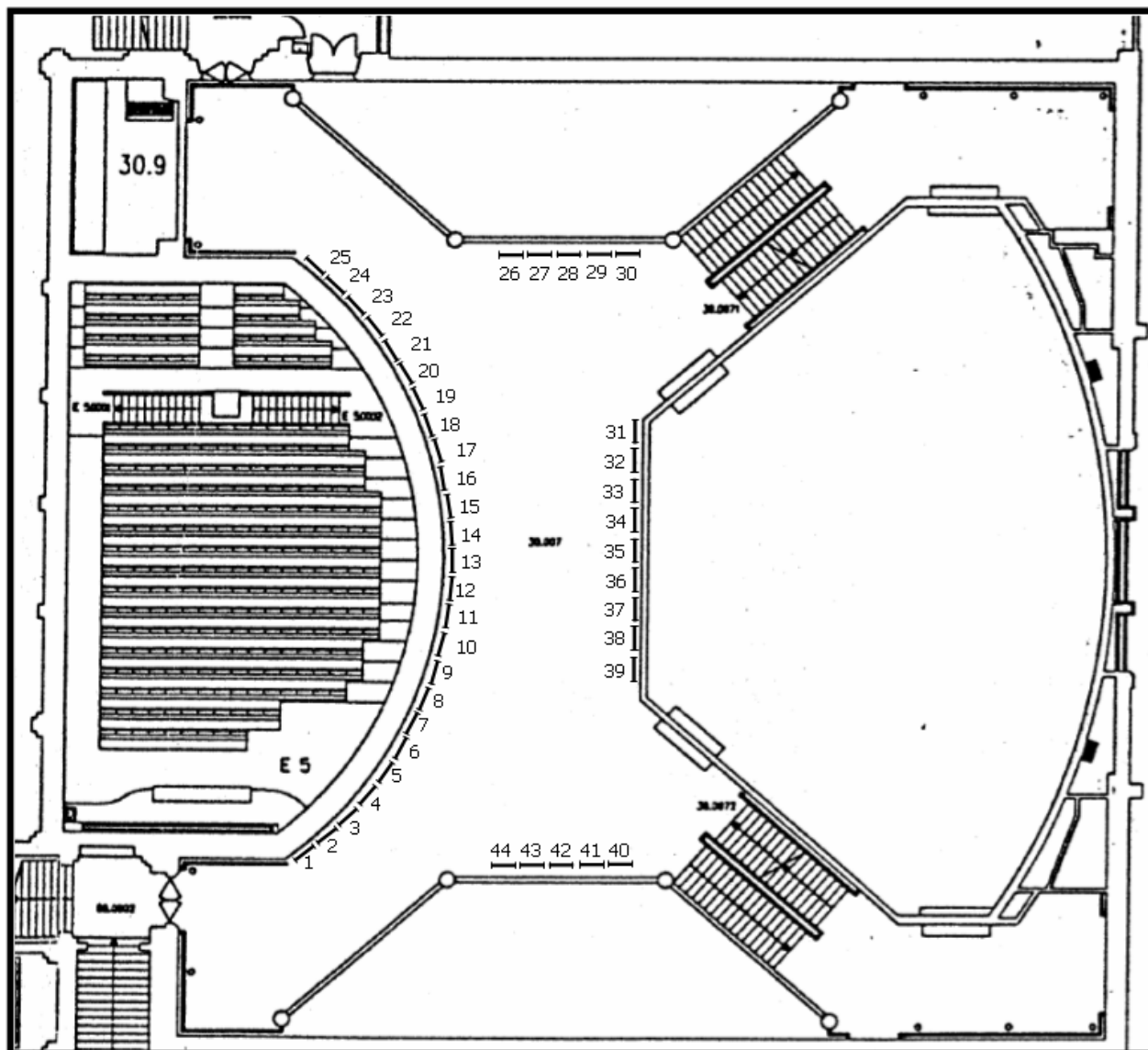
	<p>The PEUS-Testing GmbH, founded in 2000, is your competent partner in the area of diesel particle filter ageing and development.</p> <p>Both for passenger cars and freight vehicles the PEUS-Testing GmbH is presently the only provider for defined soot loading and regeneration of diesel particle filters.</p> <p>Our self-developed hot-gas-generators make it possible to realise complex temperature courses by using up-to-date automation processes.</p> <p>Secure knowledge about the product is achievable because the test results are reproducible at any time.</p> <p>In addition, we offer electordynamic shakers combined with power-vectors and temperatures up to 1000°C and 2 bar back pressure. Motor and chassis dynamometers and emission measurements complete our service spectrum.</p> <p>Visit Booth #6</p>
	<p>LaVision provides integrated (Laser) Imaging Systems to the scientific and industrial markets. The product range varies from high-speed and ultra-fast CCD cameras and accessories via imaging detectors to measurement technologies and software tools. LaVision is an international company with subsidiaries in France, UK (LaVisionUK Ltd.), the USA (LaVision Inc.) and with representatives all over the world.</p> <p>LaVision offers customer designed (Laser) Imaging Systems for reactive and non-reactive flow field analysis, combustion research, fluid mechanics and non-destructive material testing as well as optical sensors for in-situ gas analysis applications., focused on species concentration and nano particle (soot) characterization.</p> <p>Visit Booth #2</p>
	<p>Car Parts Kuhn GmbH & Co. KG's main line of business is the development of readily marketable and technically mature systems and processes for the automotive sector.</p> <p><i>The company works together closely with universities, colleges of technology, and other scientific institutes.</i></p> <p><i>Main products include: DYNTEST Data Logger and Electronic Control Unit for Diesel Particle Filters</i></p> <p>Key Words: Data Logging, Additive Dosing, Diesel Oxidation (HC)</p> <p>Visit Booth #3</p>

	<p>Proventia Emission Control is a specialist in the field of emission control technology. Our mission is to create the most suitable solution for each customer's application to reduce emissions, lower operating costs and ensure the engine's performance.</p> <p>Proventia has created flexible concepts for making its special know-how available for the design of customers new products. We provide complete exhaust systems. Proventia integration package includes prototypes and various tests, the exhaust gas purification system.</p> <p>Proventia has created a number of successful solutions for world leading brands in machine and mining industry. We have also executed significant retrofit projects with excellent results.</p> <p>Visit Booth #13</p>
 <p>Wir filtern Abgase. We care for air.</p>	<p>We care for air. This slogan is a striking description of our company's mission.</p> <p>The HUSS offers entire solutions for exhaust aftertreatment of diesel engines.</p> <p>We are developer, manufacturer and seller of diesel particulate filters for:</p> <ul style="list-style-type: none"> • Fork Lift Trucks • Construction machines • Buses • Commercial Vehicles • Stationary Generator Sets • Special applications <p>With 6 different regeneration technologies we have solutions for all possible exhaust gas temperatures.</p> <p>Beside our premium quality products we offer a wide range of after sales services. This starts from support for sizing the right filter, proceeds in installing them on the customer's site and ends in maintaining them.</p> <p>Visit Booth #10</p>
	<p>JING Ltd is a Swiss company for real soot particle generating techniques and provides different types of high-performance soot generators for calibration, filter test, research activities and more. The JING soot generators use gaseous and liquid fuel to produce soot and can be designed in nearly any size to fit special requirements on the particle characteristics and output (low and high mass). The best known product lines based on JING's techniques are CAST and miniCAST. Since 1999 products of JING have been doing its service for companies and universities in many countries. For special applications JING also provides individual solutions.</p> <p>Visit Booth #16</p>

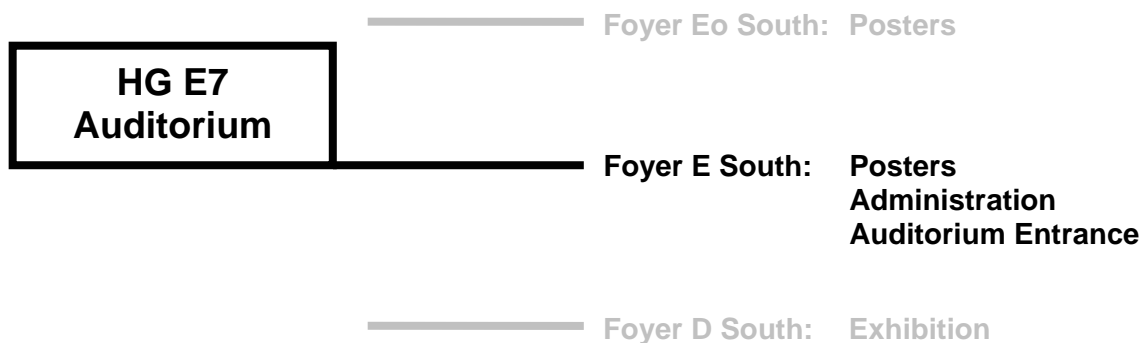
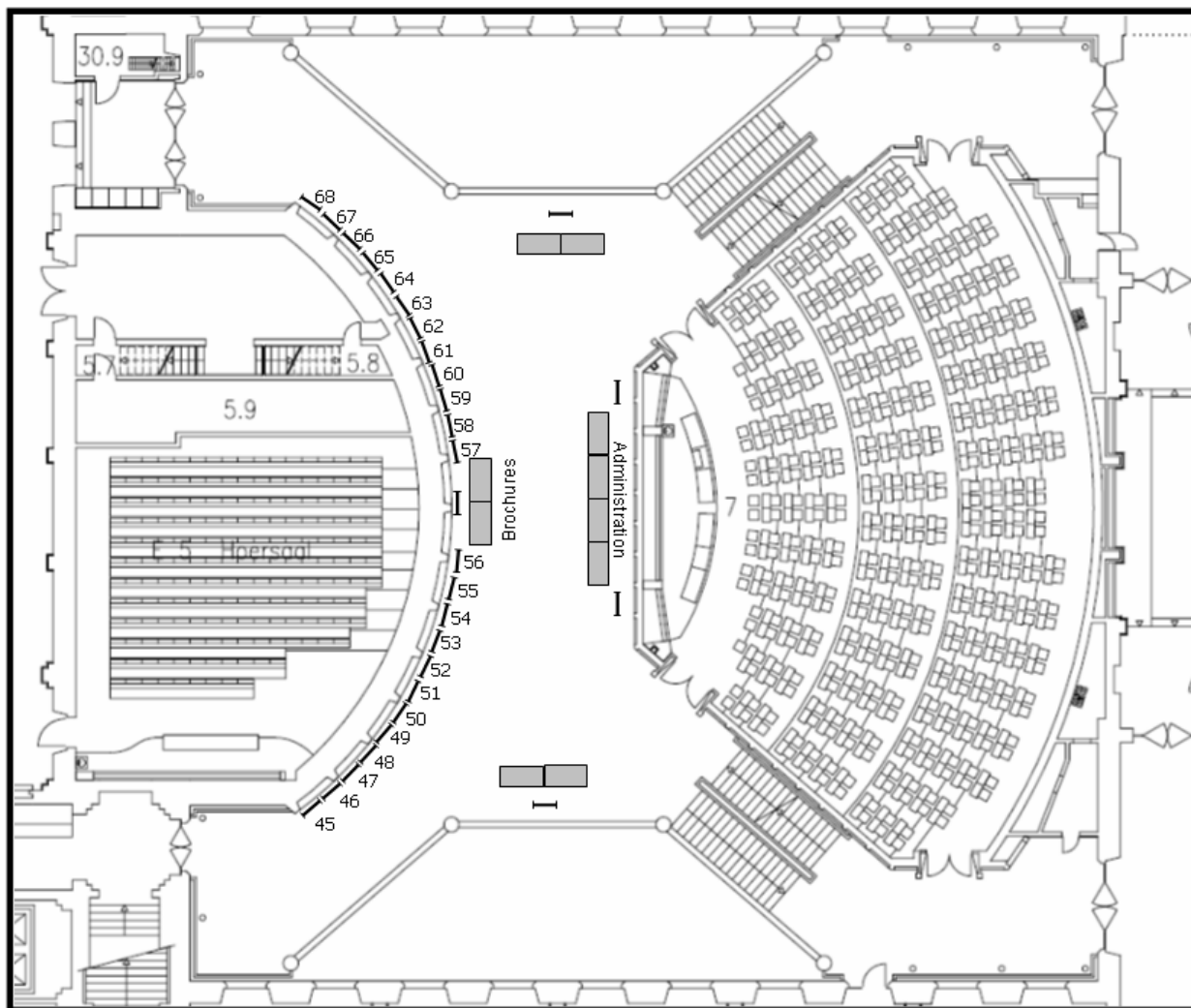
	<p>MAHA Maschinenbau Haldenwang GmbH & Co. KG. stands for high-tech in the field of motor vehicle testing and workshop outfitting. MAHA test stands are in action throughout the world in the testing of cars, commercial vans, motorcycles and special vehicles of all kinds.</p> <p>MAHA workshop equipment covers the entire spectrum: from lifts to service units right up to modern emission testing technology. Individual test units can be networked to create universal test lanes making MAHA a competent technology partner for vehicle manufacturers and testing organizations around the globe.</p> <p>Our customers are optimally served on the spot by s.o. subsidiaries and dealers in more than 130 countries. In over 35 years of operation, MAHA has become a Global Player in the international vehicle testing business underscoring its strengths of offering individual support and high flexibility.</p> <p>Visit Booth #1</p>
	<p>Company Description:</p> <p>GEO2 Technologies is a Boston-area technology company that has developed a platform of Advanced High Porosity Honeycomb Ceramic Wall-flow Filters. Our filters exhibit high porosity and permeability, low pressure drop, high trapping efficiency, and increased catalyst efficiency with high strength and durability. GEO2's materials are extruded into high surface area honeycombs with multiple cell geometries, shapes, and ceramic chemistries.</p> <p>Visit Booth #5</p>
	<p>Innospec's dynamic Fuel Specialties business leads the market in innovative additive technology for everything from petroleum-based fuels to coal and biofuels.</p> <p>Our team has been at the forefront of the innovative fuel borne catalyst (FBC) technology for many years, with technical expertise, ongoing investment in Research & Development and worldwide sales and distribution networks.</p> <p>Adding a FBC to your engine's fuel is the most reliable and effective way to regenerate diesel particulate filters (DPF). With our unique range of fuel treatments you can completely regenerate a DPF and keep it working efficiently under normal driving conditions, without increasing secondary emissions, especially NO₂. Our 3rd generation FBC - satacen® 3 - offers further benefits to both OEMs and the retrofit filter markets.</p> <p>Visit Booth #15</p>

 <p>www.akpf.org</p>	<p>AKPF was founded by the industrial partners of the VERT-project in August 1998. It provides a forum for discussion between diesel particulate filter manufacturers, distributors, and clean air authorities in Switzerland, Austria, Germany, and worldwide. The technical work of AKPF focuses on development of specifications and certification procedures for diesel particulate filter systems. The aim of this task force has broadened considerably, to assist generally:</p> <ul style="list-style-type: none"> • authorities of: law-making, administration and enforcement • non governmental organisations,(NGOs) • potential users of soot traps, fleet operators, • designers of test-stations etc. • to design reasonable regulations and rules of how to implement them. <p>The AKPF is open to every trap manufacturer worldwide</p> <p>Visit Booth #14</p>
 <p>AVL LIST GMBH Hans-List-Platz 1 A 8020 Graz Phone: +43 316 787 Ext. 0 Fax: +43 316 787 Ext. 400 eMail: info@avl.com Web: www.avl.com</p>	<p><i>AVL is the world's largest privately owned and independent company for the development of powertrain systems with internal combustion engines as well as instrumentation and test systems.</i></p> <p>The products of the business area Engine Instrumentation and Test Systems comprise all the instruments and systems required for engine and vehicle testing.</p> <p>In 2006 the high-tech company AVL employed 3640 employees worldwide and achieved a turnover of EUR 537 million.</p> <p>Visit Booth #4</p>
	<p>PHYSITRON is a newly founded company based on long lasting experience and competence in the field of exhaust treatment of Diesel engines. The off-road business of GREENTOP GmbH has been taken over by PHYSITRON GmbH recently. New and innovative active regeneration processes are our strengths (patented Diesel regeneration burner). In combination with established filter materials of well known producers PHYSITRON will be able to find an innovative and reliable solution for exhaust treatment.</p> <p>Visit Booth #12</p>
<p>RP- Systems GmbH</p>	<p>RP Systems, the specialists for Exhaust treatment of construction and industrial machinery, buses and trucks.</p> <p>RP Systems has developed a computer supported Particle Filter System, which independent from the exhaust temperature and conditions of use, can be retrofitted in all On- and Off- road vehicles.</p> <p>RP Systems is a manufacturer and distributor for universal and vehicle specific particle filter systems- your innovative and high-performance partner.</p> <p>Visit Booth #11</p>

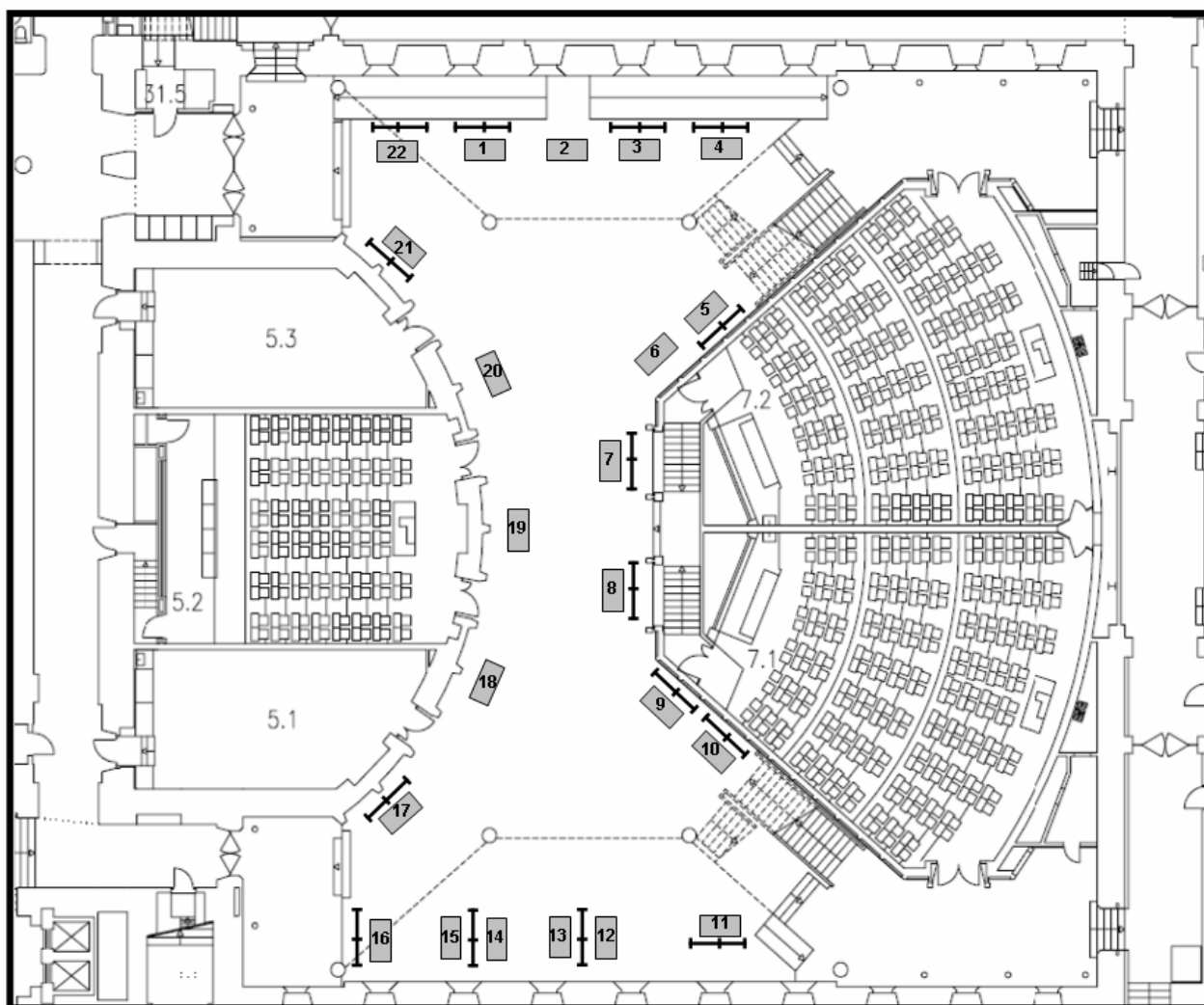
FOYER EO SOUTH - POSTERS



FOYER E SOUTH – POSTERS AND ADMINISTRATION



FOYER D SOUTH – EXHIBITION



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