

Platinum



Aaqius & Aaqius <http://www.aaqius.com>

Aaqius & Aaqius, Venture Business Company™:
accelerating innovation, capturing value and sharing risk

Aaqius & Aaqius is the founder of Aaqius Network, an international community of expertise.

Our mission is to:

- assess the potential of your innovative project and help you to structure it,
- work with you to craft strategies for different markets,
- enable you to capture more value, faster, and for longer,
- make a human and financial contribution to mitigating the risks involved in any technological or industrial project.

Diesel Emissions Control (DEC) Activities

Aaqius & Aaqius, by structuring the value chain, offers the best conditions to allow you to maximize value on the most promising market segments.

Today, your goal is to comply with the future Euro 5 and US'07, US'10, Tier2-Bin5 emission standards limits and to optimize the NOx/PM/CO2/Cost compromise.

Aaqius & Aaqius assists you in hitting your target, by evaluating your technologies, identifying the missing technological bricks from Diesel combustion parameters to post-treatment systems and strategies, and by collaborating on the launch of your innovations on tomorrow's markets.

To achieve its aim, Aaqius & Aaqius defines the strategic line of attack and implements technological development and enhancement programs, using industrial leaders on their market. Aaqius & Aaqius structures partnership platforms, thus speeding up innovation cycles, sharing risks, maximizing synergies and increasing your market visibility.

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BOSCH

Robert Bosch Corporation <http://www.bosch.com>

As one of the largest automotive suppliers in the world, Bosch is a leader in developing, engineering and manufacturing precision automotive systems and components for body electronics, chassis and powertrain technology.

In North America, Bosch's original equipment products for today's technically advanced cars, trucks and sport utility vehicles include:

- antilock brakes (ABS), traction control and electronic stability control (ESP) systems
- gasoline and diesel fuel-injection systems
- transmission controls
- electrical and electronic systems and components

Bosch automotive systems are designed to help reduce vehicle emissions, increase passenger safety, improve fuel economy and provide driver comfort and convenience.

To remain at the leading edge of technology and continue to grow, Bosch invests heavily in research and development every year. In North America, through affiliations with such prestigious organizations as Carnegie Mellon University and Stanford University, Bosch is working on future automotive concepts to continue its legacy of achieving innovation.

Bosch. We bring innovation.



Caterpillar Inc. <http://www.cat.com>

For more than 75 years, Caterpillar Inc. has been building the world's infrastructure and, in partnership with its worldwide dealer network, is driving positive and sustainable change on every continent. With 2003 sales and revenues of \$22.76 billion, Caterpillar is a technology leader and the world's leading manufacturer of construction and mining equipment, diesel and natural gas engines and industrial gas turbines. More information is available at www.cat.com.

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Cummins Inc. <http://www.cummins.com>

Cummins Inc. is a leading supplier of diesel- and alternate-fueled engines for heavy-duty trucks, medium-duty trucks, buses, motorhomes, specialty on-highway vehicles, and the exclusive supplier of diesel engines for the Dodge Ram pickup truck. Cummins is also a leading global supplier of diesel engines for the agriculture, construction, government, marine, mining, rail, and oil and gas markets. Cummins is a global supplier of diesel and natural gas-powered generator sets and generator set components from 3kW to multi-megawatt installations. Cummins is a global provider of electric generators, power systems, and related accessories, components and services. Products include diesel and gas generators used in recreational vehicles, commercial vehicles, and pleasure boats plus diesel and gas generator sets, transfer switches, and switchgear used in commercial facilities for emergency back-up and prime power. Holset is a global provider and leading technologist of turbochargers for a wide range of applications. Cummins serves its customers through more than 680 company-owned and independent distributor locations in 137 countries and territories.



Detroit Diesel Corporation <http://www.detroitdiesel.com>

Detroit Diesel Corporation, headquartered in Detroit, Michigan, is engaged in the design, manufacture, sale and service of heavy-duty diesel and alternative fuel engines, automotive diesel engines and engine-related products. The company offers a complete line of engines for the on-highway, off-road and automotive markets and is a QS-9000 certified company. Detroit Diesel services these markets directly and through a worldwide network of more than 2,700 authorized distributor and dealer locations. Detroit Diesel is a subsidiary of DaimlerChrysler AG, the world's leading manufacturer of heavy-duty diesel truck engines.

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Diesel Technology Forum <http://www.dieselforum.org>

Since it was founded in 2000, the Diesel Technology Forum has emerged as a leading information source on clean diesel and energy issues, and its leadership regularly participates in legislative and regulatory deliberations, technology demonstrations, and industry and media events. Elected officials, regulators, members of the media and other opinion leaders count on the Forum for data, insight and expert commentary.

The Forum maintains close working relationships with numerous federal, state and local regulators and elected officials, as well as various groups that share a stake in clean diesel. It has partnered with both the U.S. Environmental Protection Agency and the California Air Resources Board to encourage the modernization and upgrading of existing diesel engines.

The Diesel Technology Forum is dedicated to raising awareness about the economic importance and essential uses of diesel engines, highlighting the continuous improvements in fuel efficiency and emissions, continuing to reduce the environmental impact of the existing fleet of diesel engines, and leading the way for future clean diesels in all applications.

Members include leading vehicle and engine manufacturers, key component suppliers, petroleum refineries and makers of emissions control devices. Among the companies participating in the Forum are: BP, Caterpillar, Cummins, DaimlerChrysler, Delphi, Detroit Diesel, Donaldson, Eaton, Ford, General Motors, Honeywell, International Truck & Engine, John Deere, Johnson Matthey, Robert Bosch, Volkswagen and numerous associate members.

The Forum's Web site – www.dieselforum.org – serves as a one-stop gateway for information and sources on clean diesel.

Gold

DELPHI

Driving Tomorrow's Technology

Delphi Corporation <http://www.delphi.com>

Delphi is a world leader in mobile electronics and transportation components and systems technology. Multi-national Delphi conducts its business operations through various subsidiaries and has headquarters in Troy, Mich., USA, Paris, Tokyo and São Paulo, Brazil. Delphi's two business sectors – Dynamics, Propulsion, Thermal & Interior Sector and Electrical, Electronic & Safety Sector - provide comprehensive product solutions to complex customer needs. Delphi has approximately 186,500 employees and operates 170 wholly owned manufacturing sites, 42 joint ventures, 53 customer centers and sales offices and 34 technical centers in 41 countries.

Silver



Argillon <http://www.argillon.com>

Argillon, formerly Siemens Power Generation Ceramics, headquartered in Redwitz/Germany specializes in technical ceramic products. SINOx® SCR (Selective Catalytic Reduction) catalytic converters for stationary and mobile applications have been in operation since 1987.

Today "SINOx® Emissions Control" is the world wide market leader with more than 15 working years experience gained in over 500 fossil-fired combustion plants. Numbering amongst these are coal power stations, stationary operated diesel engines, boiler firing systems, marine diesel engines and in many other areas of application.

Initially applied on stationary applications, SINOx-SCR will be launched on automotive applications in Europe by the end of 2004 to meet upcoming EURO4 and EURO5 emission limits.

Argillon's scope of products and services includes

- SINOx® SCR honeycomb-type monolith catalytic converters
- SCR system development know-how for mobile applications
- Emissions Control Services: fully equipped engine test benches for developing, testing and certification

In the USA, Argillon LLC is located in Alpharetta, GA.

SINOx® catalysts as part of stand alone SCR-systems or in combination with particulate filters have been applied and tested in the USA on the road as well as in extensive dynamometer durability runs.

Silver



Corning Incorporated <http://www.corning.com>

About Corning Incorporated

Corning is a leading supplier of advanced catalytic converter substrates and particulate filters to the world's major manufacturers of gasoline and diesel vehicles and engines. The company invented an economical, high-performance cellular ceramic substrate in the early 1970s that is now the standard for catalytic converters worldwide. In 1978, Corning developed the cellular ceramic particulate filter to remove soot from diesel emissions.

Corning Incorporated (www.corning.com) is a diversified technology company that concentrates its efforts on high-impact growth opportunities. Corning combines its expertise in specialty glass, ceramic materials, polymers and the manipulation of the properties of light, with strong process and manufacturing capabilities to develop, engineer and commercialize significant innovative products for the telecommunications, flat panel display, environmental, semiconductor, and life sciences industries.

Silver



Donaldson Filtration Solutions <http://www.donaldson.com>

Donaldson Company, Inc., is a leading worldwide provider of filtration systems and replacement parts. Founded in 1915, Donaldson is a technology-driven company committed to satisfying customer needs for filtration solutions through innovative research and development. Donaldson serves customers in the industrial and engine markets, including dust collection, power generation, specialty filtration, compressed air purification, off-road equipment, industrial compressors, heavy trucks and light vehicles.



EMITEC, Inc. <http://www.emitec.com>

Emitec was founded in 1986 as a subsidiary of Siemens and GKN. The worldwide development of environmental awareness and the early decision of the automobile industry to employ catalytic converters to reduce pollution from exhaust gases were an advantage to the fast development of a young company. From the beginning, Emitec has relied upon metal as a material for all new and further developments of substrates, and within a few years has become one on the biggest manufacturers of metal catalyst carriers in the world. With two production locations in Germany (Lohmar and Eisenach), and production in the United States (Fountain Inn, S. Carolina), Emitec is able to supply the market with patented Metalit substrates. Today, technology and innovation continue at Emitec, with new products for the diesel market including the PM Filter Cat for diesel particulate filtration, and an all new line of structured foil substrates using “turbulence” to increase volumetric conversion efficiency.

Silver



HILITE
INTERNATIONAL

Hilite International <http://www.hilite.com>

Hilite International is a multi-national Corporation with manufacturing facilities in the United States, Germany and France. As a supplier of engine products that require engineering/design, manufacture, assembly and testing to meet increasing global government requirements for improved fuel economy and higher environmental standards, our components and systems perform critical functions for engine control, 4-wheel torque transfer, and transmission systems. Hilite's expertise includes camphasing systems, variable valve lift systems and valves for cylinder deactivation controls; transmission control systems and valves for stepped automatic, automated manual, double clutch, and CVT transmissions; valves and pumps for fuel systems; and emission control modules for NOx reduction on diesel applications.



JOHN DEERE

John Deere <http://www.johndeere.com>

Deere & Company, founded in 1837 by John Deere, is one of the oldest industrial companies in the United States. Growing from a one-man blacksmith shop into a worldwide corporation, the company also known by its founder's name does business in more than 160 countries and employs approximately 43,000 people.

In 1918, John Deere purchased the Waterloo Gasoline Engine Company and began manufacturing engines. The company has conducted engine emissions research since 1967. Today, in five countries, John Deere manufactures diesel engines that meet the stringent non-road emission standards for the European Union, U.S. Environmental Protection Agency, California Air Resources Board, and Japan.

Deere is committed to producing engines that meet or exceed future emission regulations while providing optimal performance and value to customers, and maximum cost efficiency to the company.

Silver



NGK Insulators, LTD <http://www.ngk.co.jp/english/index.html>

Established in 1919, NGK Insulators, LTD is a \$3 billion global supplier of high quality technologies for the power, electronics, energy, waste treatment, and ceramics industries. NGK's HONEYCERAM[®] honeycomb ceramic products, diesel particulate filters, and NOx sensors are indispensable components of stationary and mobile emissions systems in use around the world. Fundamental corporate values, including concentration on technological development, corporate citizenship, "green" business practices, and highly efficient management, form the foundation of NGK's commitment to maintain excellence based on global standards.



Particle Instruments LLC

"North America's Largest Selection of Aerosol Instrumentation"

Particle Instruments LLC is the North American distributor for several aerosol instrumentation companies including Dekati Ltd. of Finland. Dekati offers a complete line of instruments specifically designed to sample, condition, and measure engine exhaust particulates. Included in the product line are the:

- Dekati Mass Monitor - for highly sensitive and reliable real-time measurement of exhaust particulate mass at 2007 emission levels.
- Fine Particle Sampler – for direct sampling of engine exhaust from the tailpipe or stack.
- Electrical Low Pressure Impactor – for real-time particle size distribution measurement.
- Thermodenuder – for removal of volatile and semi-volatile compounds from engine exhaust.
- Ejector Diluters – for precision dilution.
- Cyclones – for removal of large particles prior to 2007 compliance testing.
- Dekati Gravimetric Impactor – multistage drop in replacement for standard filter holder which provides size information in addition to total mass.

From Kanomax Inc. we also offer the Aerosol Particle Mass Analyzer AMP-10. This instrument classifies the mass of individual aerosol particles and can be used to determine their density and give insight into their fractal nature.

Please stop by our exhibition table for additional information on these and other products.

Bronze

Battelle

The Business of Innovation

Battelle <http://www.battelle.org>

Battelle is a global science and technology enterprise that develops and commercializes technology and manages laboratories for customers. Headquartered in Columbus, Ohio, we have been in the business of innovation for nearly 75 years and have a vast science and technology reach. Battelle, with the national labs it manages or co-manages, oversees 16,000 staff members and conducts \$3 billion in annual research and development.

Battelle provides solutions and develops innovative products for commercial customers by leveraging technology into competitive advantage. We also provide services to more than 800 federal, state, and local government agencies, providing cost-effective science and technology in the areas of national security, homeland defense, health and life sciences, energy and environment, and transportation and space.

Battelle serves the U.S. Department of Energy in the operation of four leading-edge national laboratories. We manage Pacific Northwest National Laboratory and, through Brookhaven Science Associates, LLC (consisting of Stony Brook University and Battelle) and UT-Battelle, LLC (consisting of the University of Tennessee and Battelle), we operate Brookhaven National Laboratory and Oak Ridge National Laboratory, respectively. With Midwest Research Institute, Battelle co-manages the National Renewable Energy Laboratory. These unique relationships combine the strengths of a cutting-edge multiprogram laboratory with a strong environmental capability, the country's preeminent nuclear physics facility, a leading multiprogram laboratory, and the leading renewable energy laboratory, and several of the world's greatest scientific instruments and user facilities.

Bronze

Honeywell

Honeywell Turbo Technologies <http://www.honeywell.com>

Honeywell Turbo Technologies is part of Honeywell International, a \$23 billion diversified technology and manufacturing corporation. It is a unit of Honeywell Transportation Systems, one of the four main divisions within the corporation, and is recognized around the world as one of the leading manufacturers of engine boosting systems for passenger cars and commercial vehicles. The company has forged global partnerships with automotive manufacturers and supplies its turbochargers under the well-known Garrett® brand.

With sales of \$1.9 billion in 2003 and production of close to 8 million turbos, Honeywell Turbo Technologies employs more than 6000 people in Europe, Americas and Asia. The Company has engineering centers in US, France, Japan and China, and operates manufacturing plants in France, Italy, Romania, Mexico, Brazil, Korea, Japan and China.

Crystal



EcoChem Analytics <http://www.ecochem.biz>

EcoChem Analytics is a full-service technical firm providing engineering, system integration, installation and maintenance of environmental monitoring systems. These include Continuous Emissions Monitoring Systems (CEMS), ambient air monitoring systems and real-time engine particulate monitoring systems.

For the DEER 2004 conference we will be showcasing various components of an engine particulate monitoring system. The Combustion Aerosol Standard (CAST) is used to generate real combustion particles with high stability and reproducibility for calibration purposes. The rotating disk diluter (MD19-2E) along with the thermal conditioner (ThC-1) are used for sample dilution and conditioning. The diffusion charger (LQ1-DC) is used to evaluate the particle surface area and Photoelectric Aerosol Sensor (PAS 2000) is used to evaluate particle photoemission (PAH-Elemental Carbon).

EcoChem is headquartered in Houston, Texas with regional offices in the US and Germany. For more information, visit www.ecochem.biz.



Reaction Design Inc. <http://www.reactiondesign.com>

Reaction Design is the exclusive developer and distributor of CHEMKIN software, the de facto standard for simulation of reacting flow with detailed gas and surface chemistry. As both a software and services provider, Reaction Design provides engineers with simulation capability designed to improve product designs and reduce environmental impact of chemical processes.

Crystal



Sensors, Inc. <http://www.sensors-inc.com>

The leading manufacturer of in-use emissions test systems for real-world applications. Company also provides solutions for engine test cells, end-of-line testing and comparison studies of after-treatment devices and fuel additives. Technologies include NDIR, NDUV and FID for gaseous measurements, differential pressure for total exhaust flow, mass measurement of particulate using a quartz crystal microbalance technique and partial dilution sampling systems. The SEMTECH product line includes in-use, portable diesel and gasoline engine test systems including SEMTECH-D, SEMTECH-G, SEMTECH ExFM, SEMTECH QCM, SEMTECH MPS and SEMTECH PMC.
