CEM 2018 booking fast... Budapest beckons

The organisers of CEM 2018 have reported a rapid increase in registrations following the publication of a Conference programme that will address the key areas of emissions testing and monitoring, including topics such as regulations, technologies, Standards, methods and techniques. Focusing mostly on industrial emissions, the event will also address the emotive issues of vehicle emissions and emissions to air from other sources.

The event, which takes place in Budapest, Hungary from 16th to 18th May, will provide a unique opportunity to learn about some of the key issues affecting air pollution and climate change. With 51 speakers from 11 countries, the Conference speakers will provide the latest perspectives from academia, energy providers, regulators, process operators and commercial companies. Registration is available online at www.ilmexhibitions.com/cem.

Visitors to CEM 2018 will include anyone with a professional interest in emissions to air from industry, vehicles and ships. This will include regulators, process operators, manufacturers, fleet operators, energy companies, engine manufacturers, waste management organisations, standards organisations, testing contractors, academia, researchers, instrument manufacturers, analytical companies, abatement companies and many more.

CEM Conference

The first conference session will provide an overview of emissions regulation in the European Union and address a number of issues relating to industrial emissions, such as black carbon emissions characterisation. There will also be presentations on vehicle emissions, including diesels, in addition to a comparison of emissions from road, river and sea transport.

The second session will provide an update on research and standardisation in the measurement of stack emissions in Europe. The performance of emissions measurement over the last decade will be assessed, and there will be a presentation on measurement

uncertainty. Other speakers will cover issues such as calibration and quality assurance, and there will be presentations on the measurement of HCl and GHGs.

On the second day, there will be two parallel sessions. The first will address the monitoring and abatement of mercury and fine particulate emissions, followed by presentations on the monitoring of gaseous species at low concentrations (HCl, HF, NH3, SO3, CH4, N2O, CHOH and TOC). An alternative session will address fugitive emissions and fence-line monitoring. Later in the afternoon, the two groups will unite to hear four presentations on innovative measurement technologies.

On the third and final day, the Conference will again focus on innovative technologies, and the final three presentations, which conclude at 12 noon, will provide reports on industrial case studies. Abstracts are available for all of the presentations at the CEM 2018 website: www.ilmexhibitions.com/cem/conference-programme/ .

CEM Exhibition

The CEM 2018 Exhibition will include many of the world's leading providers of emissions measurement equipment and services. For those not wishing to attend the Conference, Exhibition day passes are available, and include lunch and refreshments.

Featuring over 60 of the world's leading manufacturers and service providers in gas analysis and emissions monitoring, the CEM 2018 Exhibition will provide a veritable feast of expertise and monitoring equipment, offering visitors the opportunity to see almost all of the world's latest technologies in one place, and at the same time.

Gas and particulate sampling will be a common feature for many of the stands. For example, the AGT-PSG stand will feature gas sampling and conditioning in action. Intriguingly, the company says that the back purge process of the probe looks "spectacular" due to the use of a fog machine. Following successful certification, JCT will relaunch the well-proven JCT-5 sample gas compressor cooler; fulfilling customer requirements for high performance sample gas cooling in Ex-zone 1. In addition, the Dado lab stand will feature a recently launched completely automated solution for isokinetic and derived sampling compliant with EN standards using a side sampling configuration option, which the company says is a world first. Cleanair Europe will display its new Autonomous Isokinetic Meter, which it says is the most advanced and versatile metering console the company has ever developed.

In line with the theme of one of the parallel conference sessions on the second day, several of the exhibition stands will display mercury sampling and monitoring equipment. For example, Gasmet Technologies will focus on mercury emissions monitoring. Technical support staff will be available to discuss the latest regulatory developments and how Gasmet's recent certification achievements enable compliance with current and future

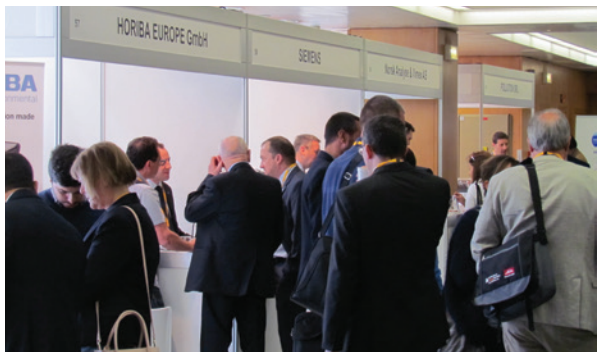
mercury monitoring requirements. LumexAnalytics will present a complete solution for monitoring mercury emissions using sorbent traps, which the company believes are ideal (especially at the challenging 1µg/m3 level) for short-term monitoring, CEM performance verifications, studies for mercury control technologies and as an alternative to the EN 13211 method. Apex Instruments will also focus on the sorbent trap method. The company says that experience with the implementation of the MATS regulation in the USA has enabled them to develop and refine their mercury sampling products.

Continuous Emissions Monitoring Systems (CEMS) will, of course, feature on many of the stands. In addition to its FTIR CEMS, the Protea stand, for example, will also feature the recently MCERTS approved P2000 analyser for in-situ emissions monitoring. SICK will present its latest solutions for emissions monitoring including the volume flow measuring device FLOWSIC100 and an in-situ gas analyzer the GM32. CEM visitors will be among the first to see the latest emissions monitor from Servomex; the QAL1-certified SERVOPRO 4900 Multigas continuous emissions monitoring analyzer. Providing up to four simultaneous gas stream measurements, it measures criterion pollutants and greenhouse gases.

Experts from Intertek will be available to provide advice in the implementation of CEMS according to EN-14181, including the three Quality Assurance Levels (QAL) and the Annual Surveillance Test (AST).

Visitors to the ABB stand will be able to test a Dynamic QR Code; a unique feature which displays dynamically generated QR codes on the ABB analyzer. In addition to static information for system identification, it also contains information about the analyser's current health status.

Signal Group will launch its new Series IV gas analysers - with 3G, 4G, GPRS, Bluetooth and satellite compatibility, each instrument is built with its own IP address and runs on Windows software. As a result, users will be provided with simple and secure access to their analysers at any time, from anywhere.



Nexus Solutions will launch a 'soft control' solution which provides a host of advantages for CEMS control, such as the ability to select/deselect individual gases from the auto-calibration routine, and the reduced consumption of calibration gases.

Portable and transportable emissions monitoring equipment will also be displayed at the event. Horiba, for example, will show the PG-350EDR which is certified for the calibration of CEMS. Horiba believes that this instrument represents the industrial standard for manufacturers' internal tests as well as the accreditation of stack testers.

Interestingly, for the first time, the exhibition will include instrument manufacturers from China – Focused Photonics and Hangzhou Zetian Technology – both of which have large numbers of installed systems employing TDLAS and a range of other techniques for gas analysis.

In response to increasingly stringent regulations in industrial gas emissions, GAZOMAT has developed a methane and VOC monitoring system, NGMesh, that offers natural gas facility operators and processing industries a laser-based detection system.

Turnkey will launch the new iGAS (internet gas monitor) instrument - flexible and compact, the iGAS is designed to be easy to deploy and maintain, with a low cost of ownership. Equally suitable for both outdoor and indoor air pollution monitoring, it can measure and record up to 8 gas species simultaneously.

Summarising, CEM 2018 organiser Marcus Pattison says: "Air pollution and climate change have never before received such high levels of media and political attention. As such, there is an enormous focus on the quality and reliability of monitoring methods and standards, because reliable monitoring enables regulatory control, informs political decisions and enables the evaluation of mitigation and abatement measures. CEM 2018 therefore represents a great opportunity to hear about the latest developments, and to meet some of the world's leading experts."

CEM 2018 is the 13th in a series of International Conferences and Exhibitions focusing on emissions monitoring. Since its inaugural meeting in 1997 the CEM conferences have been held in the UK, The Netherlands, Denmark, France, Italy, Turkey, the Czech Republic and Portugal. The CEM event brings together the international emissions monitoring community to network, trade ideas and discuss technology, methods, applications, legislation and standardisation relevant to all atmospheric pollutants including particulates, SO2, NOx, VOCs, NH3, Hg, BC, trace elements and greenhouse gases.

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