



PEFTEC 2019 - NEW VENUE AND BIGGER!

PEFTEC 2019, the 3rd international conference and exhibition on testing and monitoring in oil, petrochemical, refining and environmental applications, will take place on 22nd and 23rd May at the Rotterdam Ahoy exhibition centre in the Netherlands. Previous events were located in Antwerp, but organiser Marcus Pattison says: "PEFTEC 2019 will be the best event yet - Rotterdam Ahoy is a vibrant, fresh facility, located at the heart of one of the world's major petrochemical hubs with superb transport links, and with expanded conferences and a larger exhibition, there will be more reasons than ever to come."

PEFTEC 2019 (www.peftec.com) is a specialist event focusing on the testing, analysis and monitoring of gas, downstream oil products, chemicals and petrochemicals. With a comprehensive programme of conferences, seminars and an international exhibition, it will provide the latest guidance on regulations, methods, standards and technologies for analytical chemists, process scientists, researchers, academics, process operators, regulators, consultants, laboratory personnel and environmental managers.

PEFTEC 2019 has been expanded to include a full Process Analysis Conference, as well as the hugely popular Analytical Conference. The Conferences and a full programme of Seminars, will provide the latest information on process monitoring and control, regulations, standards, methods, technologies and analytical techniques, in addition to case studies and reports on current research. In addition, both conferences will merge at the beginning of the second day for a joint session on 'Big Data/Big Analysis'.

PEFTEC Analytical Conference (22nd and 23rd May)

The morning session of the first day will focus on the latest developments in mass spec applications and will feature an opening plenary by one of the fathers of Petroleomics and Director



of the Future Fuels Institute at Florida State University, Ryan P. Rodgers who will be followed by other leading researchers in this rapidly growing field. The afternoon presentations will cover recent developments in GC and GCxGC applications with a range of detection systems including the barrier ionisation discharge detector, MS and VUV spectroscopy.

The Analytical and Process monitoring conferences will merge at the beginning of the second day to address the hot topic

of 'Big Data and Big Analysis' with a plenary by Eric Little, the Chief Data Officer of Osthus, which will be followed by talks on specific applications of data analytics in both the laboratory and process analysis applications. The analytical conference will then continue with talks on the re-emergence of Supercritical Fluid Chromatography as a mainstream analytical technique and the afternoon sessions cover the application of both molecular and atomic spectroscopic techniques for petro industry related analysis.

PEFTEC Process Monitoring Conference (22nd and 23rd May)

The first day will begin with a plenary lecture on the latest developments in process monitoring by Alison Nordon from the Centre for Process Analysis and Control Technology (CPACT). This will be followed by sessions featuring a wide variety of monitoring techniques including OFCEAS spectroscopy and low pressure sampling, carrier-gas-free GC, micro GC, gas chromatography – vacuum ultraviolet absorption spectroscopy, laser technology for C1 to C5, online micro GC and remote sensing. Sessions will also cover biogas impurities and combustion optimisation.

As with the analytical conference, the second day will commence with a plenary by Eric Little on 'Big Data and Big Analysis',

mentioned above. Subsequent speakers will discuss gas leak detection, real-time event monitoring, the calibration of process spectrometers, the use of FTIR as a universal concentration meter, online analysis of sulfur compounds, TOC in brine, and on-line elemental analysis. The final presentation will address the application of the on-line liquid injector valve system for non-discriminating analysis of condensate and liquids by GC.

PEFTEC Exhibition (22nd and 23rd May)

The new larger Exhibition will provide access to innovation from over 250 world-leading companies, many of which will be providing technical seminars during the event – see www.peftec.com for details.

The exhibition will offer a fantastic opportunity to not just see the latest technologies, but to discuss them with experts and meet with potential suppliers. This is vitally important because face to face meetings provide an opportunity to build trust, and people that visit exhibitions often remark that they found something they didn't know they were looking for.

New Products and Technologies at PEFTEC 2019

The ABB stand will focus on a single-point fiber optic industrial FT-NIR analyser designed to simplify the in-line monitoring and control of continuous processes in a wide range of refinery applications.

Agilent will announce the latest additions to its portfolio of intelligent GC systems which take GC intelligence to a new level, and Applied Rigaku Technologies, Inc. will be presenting an analyser for monitoring bunker fuel blends to meet the 2020, IMO Marpol regulation limiting the sulphur content of fuel.

FLIR will demonstrate its first uncooled methane gas detection camera, which it says is roughly half the price of cooled gas cameras.

GAS - Global Analyser Solutions provides a fast, robust GC and will announce a new temperature programmable oven for analysing a wide range of components up to C20, as well as an onboard thermal desorption module for ppb/ppt level analysis.

Grabner Instruments will showcase its latest innovative technology for the Vision analyser line at PEFTEC 2019. The company built its reputation with instruments for vapour pressure and flashpoint testing, and visitors to stands 113 and 114 will have a chance to witness the next step in Grabner Instruments' continuous strive for accurate, reliable and state-of-the-art analysers.

LAR Process Analysers AG, will present two major new TOC analysers; the QuickTOCtrace for ultra-pure water applications and the QuickTOCultra for complex water. Omnitek (Netherlands) will launch an innovative new instrument at the show – visit stands 22 and 23 to find out what it is!

Visitors to the Optimus stand will be able to learn about the brand new ElemeNtS total elemental combustion analyser, and anyone with an interest in mercury analysis/monitoring may wish to visit to the P S Analytical stand which will provide experts offering help and advice.

XOS will showcase the recently-released Petra MAX Autosampler, which is designed to improve workflow and efficiency over traditional carousel automatic sampler systems.

Industrial Methane Measurement (IMM) Conference (22nd and 23rd May)

A conference addressing the measurement of methane emissions will run alongside the PEFTEC event, with delegates from both events sharing the ability to peruse the PEFTEC exhibition, which will provide an opportunity to see the latest technologies for monitoring methane in fugitive, vented and partially combusted emissions from the world's leading test and measurement equipment manufacturers.

Methane is an important Greenhouse Gas (GHG), absorbing significantly more energy than carbon dioxide for example, so it performs a major role in global warming. However, methane is less persistent in the atmosphere than carbon dioxide, so methane reduction efforts are likely to have a faster effect.

Atmospheric methane concentrations rose during the decade from 2006 to 2016 following a previous decade of near-constant concentrations, so there is major concern about the sources of this increase and also with the monitoring methods. The methane measurement conference was therefore created to provide an opportunity for experts from around the world to share their experiences in the detection, monitoring and mitigation/prevention of methane emissions.

The conference themes were developed by the event's scientific committee which includes internationally respected academics and researchers from NPL (UK), Environmental Defense Fund (USA), Royal Holloway University of London, Utrecht University (Netherlands), DBFZ (Germany), Sigma Space Corporation (USA) and TOTAL (France).

The first session of the conference will cover current understanding, regulation and policy, and this will be followed by presentations on current capabilities and case studies, including



methane emissions from biogas plants.

The first session on day two is titled: 'Demonstration & Validation of Technologies' and will include a range of talks; from the validation of controlled release studies, to the demonstration of portable cavity ring-down spectrometers. The final session will focus on emerging technologies for methane monitoring, and will include methane monitoring using drones, quantifying methane emissions using satellite observations and multiple talks on the progress of quantitative optical gas imaging.

PEFTEC 2019 and IMM 2019 – Register Now!

Entry to the PEFTEC Exhibition and Seminar programme is totally free of charge for those that pre-register at www.peftec.com. The cost of admission to the PEFTEC and IMM Conferences is €125/day + VAT, or €200 + VAT for both days.

The IMM conference will be of major interest to anyone involved with the measurement or management of GHG emissions, especially if they are fugitive, vented, leaked, spilled or emitted from an industrial process. Similarly, PEFTEC 2019 is a 'must go' event for anyone involved with analytical chemistry, quality control, research, process development and control within the oil, gas and petrochemical sectors. The conferences and seminars will provide the latest information from global experts, and the exhibition will provide an ideal opportunity to meet existing and prospective instrumentation and service providers – all under one roof and at the same time.

A packed programme is in place and the organisers look forward to welcoming you to Rotterdam!

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