

EXPERTS IN GAS ANALYSIS

40 years of expertise in gas analysis, definitely something to celebrate

This year, Chromatotec celebrated its 40 years of expertise in gas analysis; 40 years in the market through the implementation of its dedicated product MEDOR® all around the world. The auto GC MEDOR® analyzer has now become the reference instrument in the field of expertise of natural gas in several countries especially in the United States for sulfurs monitoring.

On July 9, in attendance of its distributors, customers and local institutions, the company celebrated in style this anniversary during a dinner party.



Chromatotec team



A 40 years' party at Grattequina Castle near Bordeaux



A brilliant anniversary

For its anniversary, MEDOR® certified ATEX for zone 1 & 2
CSA type approval certification also in progress

Since 2009, Chromatotec® proposes a version of its auto GC MEDOR® analyzer in Exp cabinet for hazardous areas. This solution dedicated for monitoring and online analysis of odorous compounds in natural gas today received the ATEX certification for zone 1. MEDOR® was already certified for zone 2 since 2014.

The ATEX directive consists of two EU directives describing what equipment and work environment are allowed in an environment with an explosive atmosphere. It guarantees risk controls regarding explosion in this type of atmospheres, according to areas classified into zones. Zone 1 and 2 are areas where a mixture of dangerous substances with air, in the form of gases, vapors or mist in which, after ignition has occurred, combustion spreads to the entire unburned mixture.

Zone 1 is for an area in which an explosive mixture is likely to occur in normal operation; zone 2 is for an area in which this explosive mixture is likely to exist in normal operation for a short time.

With the ATEX certification for its MEDOR® Exp range, Chromatotec® has got now the authorization for mass production of any device certified as ATEX.

To complete this certification and respond to all standards around the world, CSA type approval certification is currently under process.



MEDOR Ex Analyzer

Polycyclic Aromatic Compounds (PAH) monitoring: new challenge well taken up by Chromatotec in 2015



Some PAHs emissions sources

Chromatotec Sponsor of the 2015 International Symposium on Polycyclic Aromatic Compounds (ISPAC)

PAH monitoring being at the core of Chromatotec's 2015 R&D strategy, it was an evidence for the group to sponsor the annual edition of ISPAC, which took place in Bordeaux from 13 to 17 September.

This international conference brought together researchers worldwide and focused on the research of Polycyclic Aromatic Compounds (PACs) on multiple fronts of analytical measurements, toxicology, organic synthesis, human exposure and health effects, and environmental presences.



This event was the occasion for Chromatotec to present its solutions trap-autoGC FID MS dedicated for VOC and autoGC PAH dedicated to PAC analysis. One's of the main applications is PAH in ambient air from gas or particulates with capabilities to detect ppt levels from naphthalene to Benzo[ghi]pérylène.

Chromatotec also provided a running instrument to monitor air quality in real-time during all the event.



Jean-Philippe Amiet and Franck Amiet with Philippe Garrigues, organizer of the ISPAC 2015 event, Research Director CNRS, ISM director and editor in chief of Environmental Science and Pollution Research

Continuous Monitoring of Polycyclic Aromatic Hydrocarbons using Automatic Thermal Desorption-Gas Chromatography

Polycyclic Aromatic Hydrocarbons (PAHs) are a group of over 100 different chemicals that are known to be formed typically during incomplete combustion of organic matter at high temperature. Their major sources in the atmosphere include industrial processes, vehicle exhausts, waste incinerations, and domestic heating emissions. Due to their carcinogenic/mutagenic effects, 16 PAHs are currently listed as priority air pollutants.

Actual analytical methods dedicated to monitor PAHs require multistep sampling preparations and are not suited for continuous monitoring. Automatic Thermal Desorption-Gas chromatography equipped with flame ionization detector is the standard method for the monitoring of volatile and semi-volatile hydrocarbons (MCERTS 2012). This technique allows for identifying and quantifying continuously hydrocarbons from ethane to naphthalene.

Chromatotec has developed a new and simple method for sampling and determination of PAHs in gas and solid phase in air by using thermal desorption technique followed by gas chromatography equipped with two detectors: a flame ionization detector and a Mass spectrometer. With cycle times of 1 hour, the system is perfectly suited for the continuous monitoring of PAHs from ppq to ppb levels, especially for industrial process characterization and optimization.

Chromatotec monitor air quality in Arcachon Bay through its own air quality station

Chromatotec® made this summer the inauguration of its private monitoring station in Andernos-les-Bains. With a wealth of experience, thanks to which it already deployed massively its systems around the world, the group wanted to implement its own monitoring station to have complementary information to the actual air quality network. These data will allow the group to extend its presence on the market and develop new innovative solutions.

The Bordeaux-based company is using its odor and pollutant gases analysis solutions to propose references measures in the field of quality monitoring and their impact on environment. Besides classical VOCS, Chromatotec® is able to analyze PAH and Terpenes emissions coming from the near forest, as well as DMS concentration coming from the ocean or integrate the impact of tidal actions.



Chromatotec's monitoring station in Andernos

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