

Issue 11

September 2011

## PPM Technology celebrates 12<sup>th</sup> birthday.

PPM Technology recently celebrated its 12<sup>th</sup> birthday. We are very grateful to all distributors, customers and other associates who have been integral in contributing throughout the company's existence.



The name PPM has been associated for many years with toxic gas detection technology ever since Dr Tom Parry Jones OBE established PPM LTD in 1993. Previously, Dr. Jones was the founding owner of [Lion Laboratories](#), a world leader in breath alcohol detection technology, which was sold in 1991 to MPD Inc. of Owensboro, Kentucky.

In 1999 - when Dr. Jones decided to step down - the company was bought by three employees and re-named to become PPM Technology Ltd. Since the management buy-out the success has continued with increased sales, expanded product ranges and almost quadrupling the number of staff employed. This expansion has necessitated relocation to new premises on the Ciblyn Industrial Estate in Caernarfon.

Today, the company is an established manufacturer and supplier of portable and fixed gas detection instruments based on electrochemical sensing technology.

Supported by a network of experienced distributors, PPM's products are exported to over thirty countries in five continents, with a wide range of industries and health care establishments worldwide relying on PPM gas detection instruments for continued protection against airborne hazards in the workplace.

## Formacare conducts studies to evaluate effect of Formaldehyde has on humans.



Formacare is a consortium of European formaldehyde producers; over the past few years they have commissioned a number of studies to evaluate the effect formaldehyde has on humans, with a specific focus on carcinogenicity. The past year has seen a number of studies looking at the genotoxicity, mutagenicity and aneugenicity of formaldehyde.

Formacare have also been meeting with various government agencies; discussing Formaldehyde legislation and re-classification. This is part of a 'Regulatory Roadshow' organised by Formacare, they will be meeting with many relevant government authorities across Europe. Our distributors **Tennants Distribution Ltd** participate in Formacare group through their chemical manufacturing company Synthite Ltd.

**More information** - <http://www.formacare.org/>

If you have any relevant stories, including any recent or upcoming exhibitions, application stories or customer testimonials that you want to be included in the next newsletter please feel free to contact us:

gevans@ppm-technology.com

Please find the attached article  
'Why monitor Indoor Air Quality?'



## Internship period comes to an end.

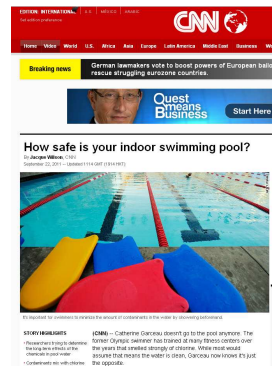
PPM Technology's summer intern Chris Roberts has now left us to complete his University degree, during his time here Chris updated all our instrument manuals; ensuring they are all now inline with the latest software updates and new product features.

His role during the placement was Quality Assurance Administrator. Hinds International of Hong Kong also took on 2 interns over the past few months; they looked into market possibilities and trends within the heating ventilation and air conditioning (HVAC) industry, and will attempted to interpret and diagnose IAQ profiles.

## Air Quality in Indoor Pools story featured on CNN.com

Concerns over air quality in indoor swimming pools has recently received significant international exposure; an item relating to this was featured on CNN.com.

"Indoor pools create an additional danger because of the enclosed atmosphere. Volatile chemicals from the water are transferred, often via vigorous activity like a swim team's kicks, to the air. Without a proper ventilation system, the chemicals can hang around to be inhaled by coaches, lifeguards or spectators."



**Full Story** - <http://www.cnn.com/2011/09/22/health/chlorine-indoor-swimming-pools/>

Our Wireless IAQ Profile Monitor system has been supplied to a number of indoor swimming pool environments; the units contained sensors for Temperature, Humidity, Chlorine, Ammonia, Carbon Dioxide and Carbon Monoxide.

As awareness of the issue increase, we are confident there will be further interest in our instruments. We are working on this project with our long-standing distributors Tennants Distribution Ltd; they specialise in chemicals and testing kits used in swimming pools; with their expertise in the field we are confident there will be considerable opportunities for the product in this environment.

## Industrial facilities can be vulnerable to numerous hazardous or toxic gases.

Industrial workplaces are likely to come across one or more hazardous or toxic gases. Combustible gases such as methane are highly dangerous because they can cause large and fatal explosions when ignited.

Other problem areas when working in industry can include carbon monoxide (which poisons the cardiovascular system), oxygen deficiency, and elevated levels of other gases and pollutants, depending and the processes in the facility, may include ammonia, sulphur dioxide, nitrogen dioxide and ozone.

PPM Technology's fixed multi-parameter gas detection systems can monitor the levels of harmful gases in the area and alert employees when they need to get out or when systems and processes need to be shut down, the system can also activate HVAC systems when required.

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## PPMonitor Software shows effect Air-Conditioning system has on Temperature and Humidity levels.

Monitoring Temperature and Humidity levels can ensure the comfort of building occupants; it can also offer financial and environmental benefits due to savings in energy usage.

Many parts of the world experience extremes in temperature and humidity; therefore to ensure an ambient indoor environment Air-Con systems are installed. PPM Technology can recreate these conditions in our Laboratory Chamber.

The below graph (Figure 1) (taken from PPMonitor software) shows how temperature and humidity have opposite yet equal effects in an air-conditioned building.

The second graph (Figure 2) shows the cyclic nature of air-conditioning system (air is being heated and then cooled constantly in order to maintain temperature to within certain criteria.)

Carbon Dioxide is a good indicator of how adequate the ventilation system is within a building. The results gathered by the IAQ Monitor's CO<sub>2</sub> sensor (Figure 3), coupled with Temperature and Humidity readings will give an indication of the effectiveness of the air-conditioning system in the building.

The air conditioning system can be tied-in with the IAQ Monitor; so the Air-Con is not used when CO<sub>2</sub> levels are low and fresh air is not required in the room.

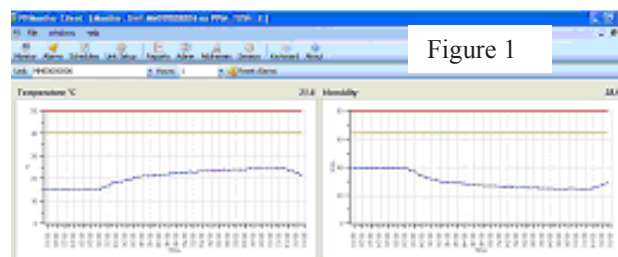


Figure 1

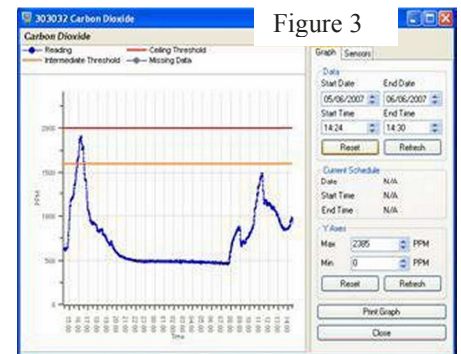


Figure 3

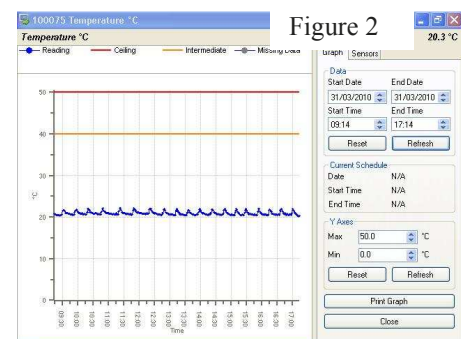


Figure 2

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