

# ClearSkies News



October 2013  
23

VOLUME

## Highlighting the SEMTECH CPM

Sensors, Inc. recently introduced the SEMTECH Continuous Particulate Measurement (CPM), a real-time PM measurement system that can be configured to measure either PM Mass or PM Number concentrations. The module packages the Pegasor® PPS-M core technology into a complete system that can be employed as a standalone analyzer (when used with a full dilution system) or integrated with the SEMTECH Micro Proportional Sampling System (MPS) and SEMTECH Particulate Filter System (PFS) to provide a complete SEMTECH PM measurement solution for both real-world or laboratory applications.



The PPS-M employs a novel technique for real-time, continuous and highly sensitive measurement of raw exhaust particulate matter (PM) emissions. The system's unique flow-through design provides for rapid, continuous PM measurements over a wide range of temperatures. The device accurately measures active particle surface area and can be easily set up to provide both particle mass and particle number concentrations.

The ECOSTAR CPM offers a number of advantages that make it distinct in the market place. There is no cross sensitivity to NO<sub>x</sub>, and it measures complete PM, which is a combination of non-volatile organics as well as black carbon. It also has a much faster response rate, 0.25s, than other concentration-based systems. Finally, its reliability and robustness have been enhanced by Sensors' development team to make it suitable for real-world applications as well as laboratory use.

The addition of a real-time device enables Sensors, Inc. to offer a complete solution to regulatory requirements promulgated throughout the world. This is especially important in Europe, which is in the midst of implementing regulations requiring the measurement of particulate number. In fact, Sensors, Inc. is providing complete ECOSTAR systems to the European Commission's Joint Research Committee's on-going development of test protocols for both Heavy Duty (in-use PM program) and Real Driving Emissions - Light Duty Vehicles (RDE-LDV).

[Learn more about SEMTECH CPM](#)

## 2013 SEMTECH User Network (SUN) Conference a success in Germany

The 10th annual SEMTECH User Network (SUN) Conference was held at the Classic Remise in Dusseldorf, Germany on September 24-25, 2013. More than 75 attendees from 30 different organizations world-wide assembled to share experiences and discuss global PEMS regulations and SEMTECH ECOSTAR applications.



Presentations covered a wide range of topics, all focused on increased PEMS activity throughout the world. Key presentations included those from Chinese, Japanese and European government officials, who reported on the status of regulations in those key regions and work being done in support of regulations requiring PEMS instrumentation. Most noteworthy was confirmation that PEMS would be required as part of the certification process for light duty vehicles (although the extent of their deployment was still under discussion), and the spread of European protocols to Asia.

An important focus of the conference has always been presentations from actual SEMTECH users. Sensors has promoted a free and open exchange among the participants to share the challenges encountered in their specific applications and solutions to any problems. Accordingly, a number of presentations from SEMTECH users covering a range of applications, heavy duty and light duty, on- and off-road, generated a great deal of discourse among the participants. These presentations and discussions provide critical feedback and serve to focus Sensors' engineering and commercial efforts.

SEMTECH ECOSTAR product introductions were announced, notably the new SEMTECH Continuous Particulate Measurement (CPM) described in the previous article. Solutions for EMROAD analysis and reporting were also revealed.

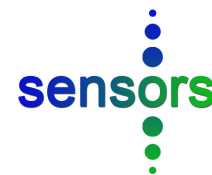
Spurred by strong participation at the conference from Asia, coupled with a substantial increase in regulatory activity throughout the region, Sensors, Inc. is happy to announce plans to hold a SEMTECH User Network (SUN) Conference in Asia. Please continue to watch for announcements on date and location.

*Note:* If you are an existing SEMTECH user, please make certain to sign-up for Sensors' SEMTECH Customer Portal. The customer portal contains application notes, software updates, user manuals and more. Registration is required. Contact your account representative for access.

[SEMTECH Customer Portal](#)

## Growing and Growing...

Glen Cunningham has joined Sensors Inc. as Director of Software Engineering. Glen earned degrees in both mechanical and electrical engineering from Cornell University as a GM scholar, but has over thirty years of experience in the automotive and related industries as a software engineer. He has been associated with Sensors on a number of key projects over the years since 1985 and is very familiar with Sensors' products and processes. He has moved quickly to provide robust software solutions for the current ECOSTAR product line, while planning for future features and functions aimed at continuously improving system robustness, intuitive "feel" and simplicity, while expanding software functionality and applications.



Chuck Wright and Mostafa Kassem have also recently joined the software engineering team as Sr. Software Engineers. Together they have over 50 years of experience with expertise in vehicle interfaces, firmware and embedded systems as well as GUI technologies.

These notable additions to our software engineering staff have markedly strengthened our overall engineering capacity to deliver timely and robust solutions in an extremely demanding marketplace.

Sensors substantial growth has led to an 20% overall increase in company staff in 2013, particularly in the testing/applications and manufacturing areas. This trend is expected to continue with the increasing market demand for PEMS world-wide.



## MARK YOUR CALENDAR



### [Automotive Testing Expo 2013 North America](#)

October 22-24, 2013

Novi, Michigan USA

Visit us at booth **7044** to see the latest in emissions measurement technology.

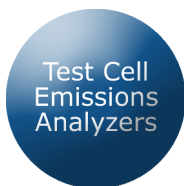


### [CRC 24nd Real World Emissions Workshop](#)

March 30 - April 2, 2014

San Diego, California USA

The 24th CRC Real World Emissions Workshop's objective is to share information on recent and ongoing research on real world emissions.



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