

2023 OSAR Conference

Request for Abstracts at UCR's OSAR Workshop on March 30 & 31, 2023

The 12th Annual Portable Emissions Measurement System (PEMS) workshop is being rebranded to be the Onboard Sensing, Analysis, and Reporting (OSAR) conference. The conference is scheduled for **March 30th & 31st, 2023** in Riverside, California. This workshop's theme, *Moving towards Onboard Sensing, Analysis, and Reporting (OSAR)* will focus on a wide range of measurement systems, activity measurements, as well as measurements of less traditional sources. The OSAR conference will continue to cover PEMS and onboard sensing systems, ranging from fully compliant regulatory PEMS (1065 Compliant PEMS), to mini-PEMS, to smaller systems, which include everything from micro PEMS (μ PEMS), nano PEMS (nPEMS), in-situ sensors, activity measurements (PAMS), Real Emissions Assessment and Logging (REAL), to Simple Emissions Measurement Systems (SEMS). In this year's conference, we will highlight the latest advancement in these systems, research based on making and analyzing emissions and activity with these systems, and how such systems can be used in different applications. In additional to these more traditional topics, this year conference will also include a focus on activity, emissions, and/or performance measurements from less traditional sources, such as battery electric vehicles and equipment, and brake and tire measurements. This emphasis will allow the conference to address issues related to zero emission vehicle and equipment as these technologies continue to expand into the transportation sector.

The presentation topics are:

- How will PEMS or other on-board sensing approaches be used by governmental agencies to provide enhanced compliance testing, and how will these approaches vary across the international landscape?
- What are the latest developments and advancements in fully compliant PEMS, mini- and smaller PEMS, and on-board sensing technology?
- How are researchers and agencies utilizing portable measurement systems to improve our understanding on real world emissions?
- How will portable emissions measurements evolve as emissions continue towards ultra-low emissions levels?
- What are the benefits of activity measurements using portable activity measurement systems (PAMS), and how can such information be used to improve our predictions of in-use emissions and develop more accurate emissions inventories?
- What role do PAMS have in characterizing and evaluating the performance of current and next generation battery electric vehicles and equipment?
- How will measurements evolve to characterize the emissions and performance of less traditional sources, such as brake and tire wear.

For the last twelve years the workshops has had over 150 attendees from industry, academia and government agencies and we are expecting approximately the same for the 2023 conference.

Your participation on the selected topics is requested. Please let us know by **December 15, 2022** if you, or another colleague, are willing to present, and provide an abstract and title for the presentation.

Please feel free to contact certpems@cert.ucr.edu, if you have any questions. More information [here](#).