



Center for Advancing Research in  
**Transportation Emissions, Energy, and Health**  
A USDOT University Transportation Center

## Measuring Exposure of Urban Cyclists to PM2.5 using an Instrumented Bike

# WEBINAR

**Dr. Kari Watkins**  
Georgia Tech



Frederick  
Law Olmsted  
Associate  
Professor

**Kaitlyn Schaffer**  
Kittelson & Associates, Inc.



Transportation  
Analyst

Please join us on June 23 from 12:00 p.m. to 1:00 p.m. to learn about exciting work conducted by researchers at Georgia Tech on the impact of particulate matter on urban cyclists!

### WEBINAR DESCRIPTION

Increased use of active transportation can make direct and indirect contributions toward addressing societal transportation issues. However, in the process of cycling for transportation, cyclists are exposed to multiple pollutants that could adversely impact their health. The goal of this study was to better understand the variation in PM2.5 exposure of cyclists depending on the cycling infrastructure along the selected route and the time that they bike. Four routes that represent the wide range of bicycle infrastructure were ridden using an instrumented bike equipped with low-cost PMS5003™ sensors. In this presentation, we will discuss the instrumented bicycle and sensors used to conduct the study, resulting PM2.5 exposure maps, and qualities of the locations with higher or lower PM2.5 exposure (traffic, bicycle infrastructure).



**JUN 23**  
**2021**

12:00 p.m. – 1 p.m. CST

Please click [here](#) to find out more about speakers, presentation topics, and to register for the webinar.

Click [here](#) to download a calendar invite, which includes the link to join the meeting.

[carteeteh.org](http://carteeteh.org)