

## **1.104 Evaluation of VOC emissions from vehicles during parking events in Japan.**

Presenting Author:

**Hiroyuki Yamada**, National Traffic Safety and Environment Laboratory,  
[h-yamada@ntsel.go.jp](mailto:h-yamada@ntsel.go.jp)

Co-Authors:

**Fukagawa Shunsuke**, Graduate School of Science and Engineering, Ibaraki University

**Tanaka Kotaro**, Graduate School of Science and Engineering, Ibaraki University

Abstract:

Evaporative emissions from vehicles for Japanese market have been evaluated using VT-SHED. We also evaluated a carbon canister purging activity during driving with a chassis dynamometer. Using these results, we estimated real world VOC emissions during parking events considering a state of carbon canister. VOC emissions increased dramatically when a breakthrough of carbon canister occurred. And we also evaluated the effect of introducing stricter regulation for the evaporative emissions on the VOC emissions in Japan.