LITHIUM-ION BATTERY RECYCLING PRIZE

Team Name: Lithium-Ion Battery Internet of Things (LIBIoT)

Primary Submitter: Dimitri Grivas

City and State: Albany, NY

Member Names: Dimitri Grivas (New Oracle Solutions), Eric Miller (ARMA International), Jeremy Vaitas (ARMA International), Harry Efstathiadis (SUNY Polytechnic), Seiichiro Higashiya (SUNY Polytechnic), Matthew Chebuske (SUNY Polytechnic), Nancy Grivas (Institute for Infrastructure Asset Management)

Submission Title: Innovative Battery Collection System by LIBIoT

Submission Track: Track 1: Collection

A Public Document

Abstract: (<100 Word)

Methodologies of the Internet of Things (IoT) will be implemented into the battery recycling process by way of RFID tagging technology for the monitoring, tracking, and cataloging of individual batteries. These tags will pair with a mobile device application which is capable of identifying compositional and lifetime data on individual batteries and recommending drop-off locations, mailing methods, or signaling for the battery to be collected. This easy-to-use app will make the recycling process more visible and accessible to consumers, incentivizing the return of end-of-life lithium-ion batteries.