



## February Luncheon

### "Locata Precise Positioning Technology for Machine Automation, Autonomous Driving, and Surveying"

Wednesday, February 14th | RSVP Today

This presentation will provide an overview of an innovative and ubiquitous precise-positioning technology called Locata, a technology that works much like GPS but capable of servicing areas that GPS cannot reach, including indoors and GPS denied environments. Locata transmitters (equivalent to GPS satellites) can be mounted anywhere to form a network enabling highly reliable centimeter-level accuracy positioning. The US Air Force, Army, and NASA are among the users of Locata technology where they utilize it as a reference system for land and air vehicles. Commercial systems with Locata technology are in operation for precise machine control/automation in deep pit mining, vehicle safety systems testing, and port automation. Locata partners have also shown how the technology can be used for surveying and continuous monitoring of structures, especially when sky visibility is limited or line-of-sight obstructions pose a challenge with traditional methods. Several commercially operational applications of Locata technology will be discussed in detail with emphasis on the accuracy and reliability of performance. Applicability of this technology to surveying and continuous monitoring of structures will also be discussed.

**When:** Wednesday, February 14th, 2018 | Luncheon from 11:30AM to 1PM

**Where:** Fishbone's Greektown, 400 Monroe Street Detroit, Michigan 48226

**Menu:** Beef Tips, Southern Fried Catfish Beignets with Remoulade sauce, Ceasar Salad, Chef's Vegetable and Rice Pilaf, NY Cheesecake

**Cost:** \$30

**Registration:** Please e-mail Pam Horner at [pam.horner@usace.army.mil](mailto:pam.horner@usace.army.mil) by COB, February 12th.

**Chaminda Basnayake, PhD Biography** | Dr. Chaminda Basnayake is a principal engineer with Locata Corporation where he is responsible for taking the Locata technology to new markets for seamless machine automation, autonomous driving, and asset tracking. Prior to that he was a senior engineer with General Motors R&D and GM OnStar where he served as the GPS/GNSS subject matter expert for GM and the USDOT-automotive OEM collaboration Crash Avoidance Metrics Partnership (CAMP) consortium. He has authored/co-authored over 20 GM patents and numerous publications and presentations on GNSS, Connected Vehicles, and telematics systems. His career highlights include winning GM's highest award for excellence and being nominated as one of the 50 Leaders to Watch in the GNSS industry by the GPSWorld magazine. Dr. Basnayake holds a PhD in geomatics engineering from the University of Calgary, Canada.



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