

Emerging Role Of Sensor Technologies In Sports For Athlete Health And Performance

Joe Casper, Founder, Eaton's Ephesus Lighting

ABSTRACT

Sensor technologies integrated into sports lighting can make environments safer while providing new avenues for fan engagement and revenue generation, as well as making sports safer for athletes at all levels.

Sensors are now integrated into athletes' clothing, protective gear and sports balls to communicate a variety of safety and performance criteria. Monitoring sensors can be used on streets and other public spaces to assist in ensuring public safety.

These technologies can communicate with luminaires as part of the Internet-of-Things. The session will cover current technologies, capabilities and applications of such sensors and communications.

BIOGRAPHIES

Joe Casper is the founder of Ephesus Lighting, Inc., an innovative LED lighting company in New York State that engineers and manufactures lighting solutions for industrial and sporting applications, which is now a part of Eaton.

Joe has spent his career pursuing technology and innovation, leading to high-profile positions at prominent companies including Lockheed Martin, Motorola and Fairchild Semiconductor. Joe led the startup team of WaferTech, a \$1.4B semiconductor facility in Washington State.

Ephesus Lighting has achieved many firsts, including lighting the first professional sports venue in North America with LED (Syracuse War Memorial) and lighting the first NFL stadium and Super Bowl site with LED (University of Phoenix Stadium). Ephesus luminaires now shine brightly at over 150 professional, collegiate and multi-purpose venues throughout North America.

Joe earned a Bachelor of Science in Chemical Engineering and a Master of Science in Electrical Engineering from Rensselaer Polytechnic Institute.