Assessing the Impact of IIoT on Condition Monitoring

Since the first wireless Condition Monitoring products released to the market nearly 15 years ago, the landscape has exploded with new wireless sensors from many vendors previously unknown to the maintenance and reliability industry. Although early entrants have establish strong presence in many applications, investors believe is that there is still much more market penetration available and at least one market CEO thinks that they are participating in a 'land grab'. Some of the fear, uncertainty and doubt within the traditional maintenance and reliability community regarding the technology is due to unfamiliarity, with some legitimate concerns about performance and costs of deploying the systems.

This talk will attempt to demystify some of the complexities of wireless systems for Condition Monitoring - encouraging the uninitiated to consider dipping their toe in the water while offering some cautions to help set expectations.

Author Profile

Ed Spence is the Founder and Managing Director of The Machine Instrumentation Group, representing a network of consulting and contract engineering service providers helping clients define and develop new sensors for machine health instrumentation.

Previously the Marketing Manager of the MEMS Sensor Technology Group at Analog Devices (2008 – 2017), Ed defined the MEMS accelerometer roadmap for vibration based Condition Monitoring, winning an Innovation Award at Sensors Expo 2017 for the innovative ADXL1002 high frequency accelerometer. Ed has long experience in new product development and thrives on defining new solutions for client applications.

Ed has published or presented on subjects related to CBM / PdM on numerous occasions, maintaining an ongoing dialogue with the PdM eco-system regarding technology trends on subjects such as the application of MEMS accelerometers, wireless sensor networks (IIoT) and data engineering for Predictive Maintenance.