

Equipment Diagnostic Data Infrastructure

- ❖ Sensor to Enterprise – Quality Data
- ❖ Diagnostics At The Machine for Bandwidth Mitigation
- ❖ Secure Wired or Wireless Data Network Communication
- ❖ Innovative Sensor Solutions for Condition-based Maintenance / Operations

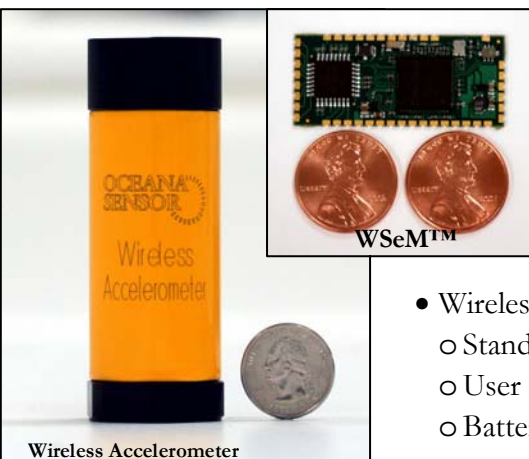
Diagnostic Monitoring Technology Solutions

- Integrating Remote Diagnostics – Next Generation Analytics for Shipboard Monitoring Systems
 - Machine-ship-fleet operation and maintenance diagnostic information for Distance Support
- Analyze-Diagnose-Adjust-Proceed-Technology – ADAPT™ - for Unmanned Vehicles
 - UxV embedded diagnostics and prognostics
 - Interoperable common architecture framework
 - Integration with UxV Command and Control (C2)
- Wireless sensors and intelligent diagnostic modules for industrial, marine, and aviation applications
- Structural integrity monitoring for corrosion, crack detection, and composite material disbonding
- Reliability centered maintenance engineering for machine-site-enterprise



Intelligent Component Health Monitor - ICHM®

- ISO13374 Data Processing and Information Flow
 - Open System Architecture for Condition-based Maintenance
- Equipment Status and Abnormality Alerts
 - Maintainer – Machine Condition
 - Operator – Machine Performance
 - Management – Readiness Planning
- Industrial / Marine Application
 - 8 Channel Configurable – Dynamic and Static Input
 - IP addressable, wired or wireless



Wireless Sensor Electronic Module - WSeM™

- Making Sensors Wireless™
 - 4 channel; analog to digital converter; adjustable filter
 - On-board processor
 - IP addressable; 802.11 wireless radio; WEP, WPA security
 - Ultra low power consumption for increased battery life
- Wireless Accelerometer - application of WSeM™
 - Stand-alone single point sensing
 - User configurable data acquisition parameters
 - Battery powered

President: Rick Lally, rlally@oceanasensor.com

Government Programs: Don Bradway, dbradway@oceanasensor.com