

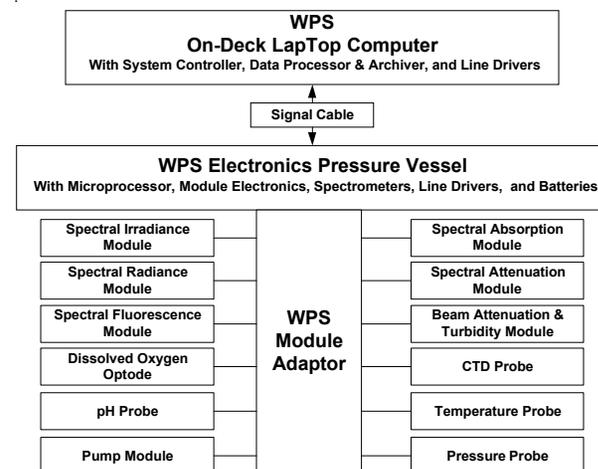
Water Properties Sensor
Kaitech Inc. – Marshfield, MA
PI: Richard E Cox
Proposal No.: S1.08 - 9836

Identification and Significance of Innovation

Novel Integrated Sensor & Module Design

- Easy to Maintain & Support
 - Small, Low Cost, and Reliable
 - Laptop Controlled w/Single Cable to Sensors
 - Oceanic, Coastal, and Fresh Water
 - Full Spectral Optical Properties
 - AOPs, IOPs and Fluorescence
 - Physical Properties
 - CTD, Dissolved O₂, pH
 - Temperature, Pressure
 - Supports all of NASA's In Situ Programs
- Estimated TRL: 2 @ beginning, TRL: 3 @ End of Contract

Graphic of the Systems Innovation



Technical Objectives and Work Plan

- Phase I – Design the Sensor and its Modules
 - Ocean Experts to Confirm Capabilities
- Phase II – Build and Validate the Integrated System
- Phase III – Commercialize the System
- Sciences Interim & Final Reports

NASA and Non-NASA Applications

- In Situ Validations of NASA's Satellites
 - Ocean Biology & Biogeochemistry & Applied Sciences
 - Ocean Observing System (IOOS)
 - NOAA's Estuarine Reserves
 - Regional & State Environmental Resource Managers
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