

Wireless Power for MARS 2016

Thom Maughan

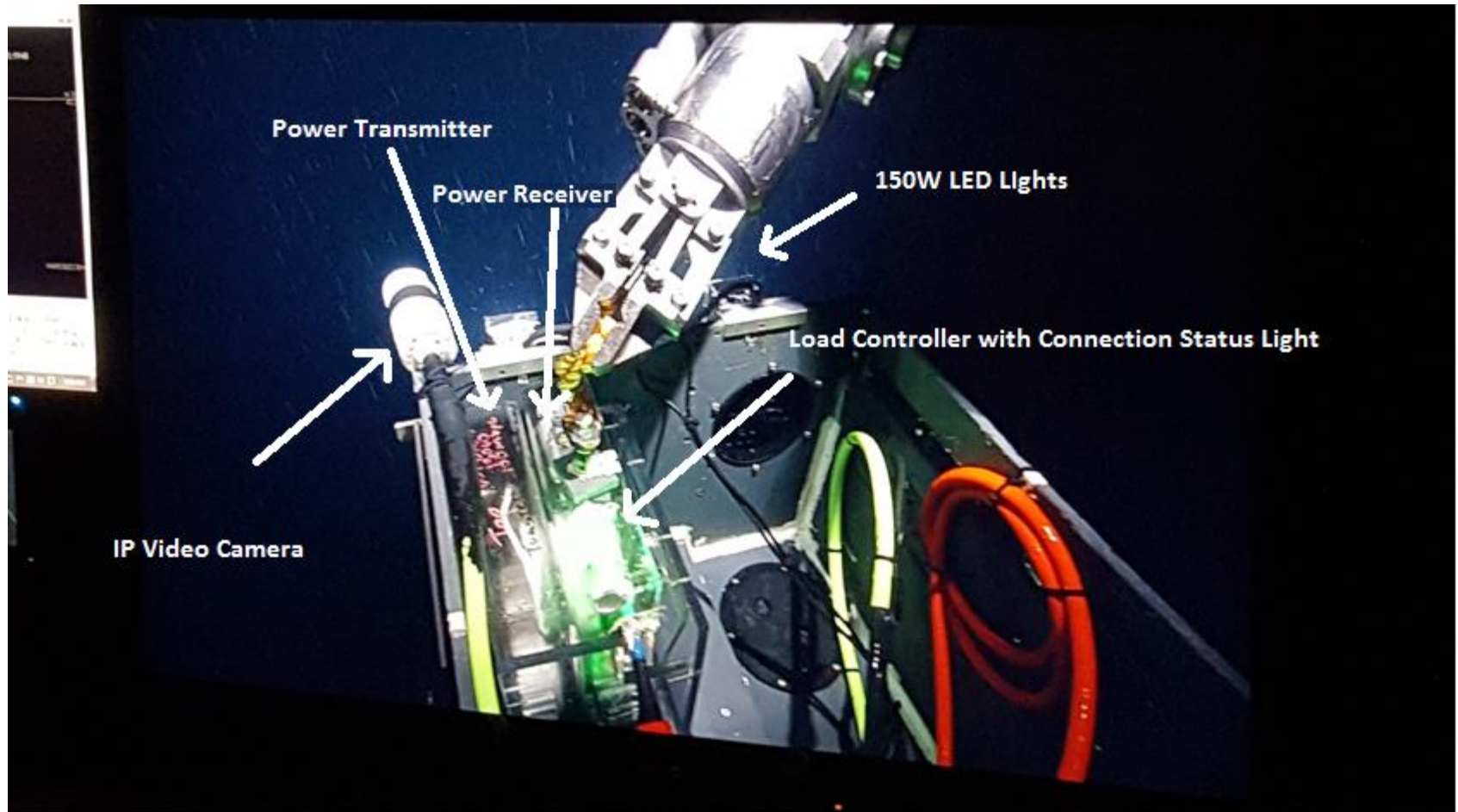
Paul McGill

Craig Dawe

Accomplishments for WPDX Medium Power

- Implemented the MBARI patent and demonstrated proof of concept to 690m on ROV Ventana 21 June 2016
 - 100Mbps Ethernet with ethernet IP camera
 - 150 Watt power transfer demonstrated using LED lights
 - Load management with ROV pilot status indicator lights indicating 'power good'
- Plugged and unplugged the Wireless Power and Data transfer connector as the ROV transited down – 4 cycles.
 - Issue: Due to high humidity affecting urethane potting compound, we had a potting failure at 690m on the transmit side.

Wireless Power and Data Transfer (WPDX) ROV Test 21 June 2016



Connect / Disconnect Cycles During Descent



Steve Etchemendy came out for the demonstration