Introduction to Biogeochemical Sensors

Sea-Bird Scientific University Module 24

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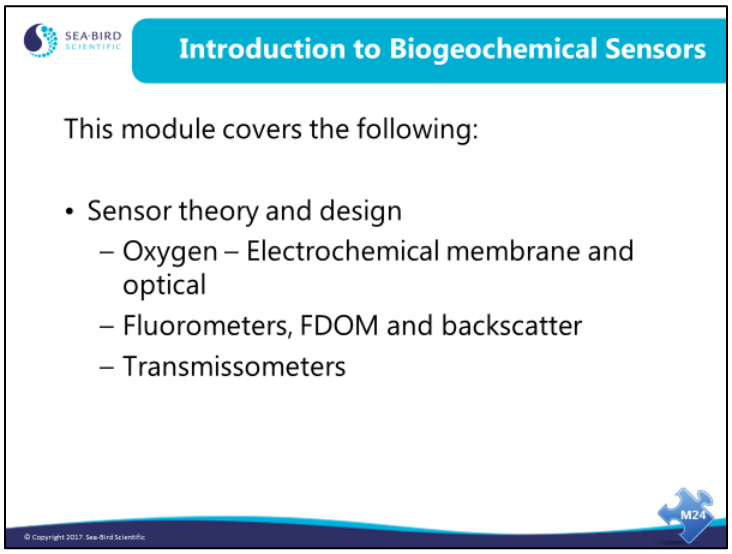
Overview


SEA-BIRD SCIENTIFIC
Introduction to Biogeochemical Sensors
This module covers the following:
• Sensor theory and design
– Oxygen – Electrochemical membrane and optical
– Fluorometers, FDOM and backscatter
– Transmissometers
M24
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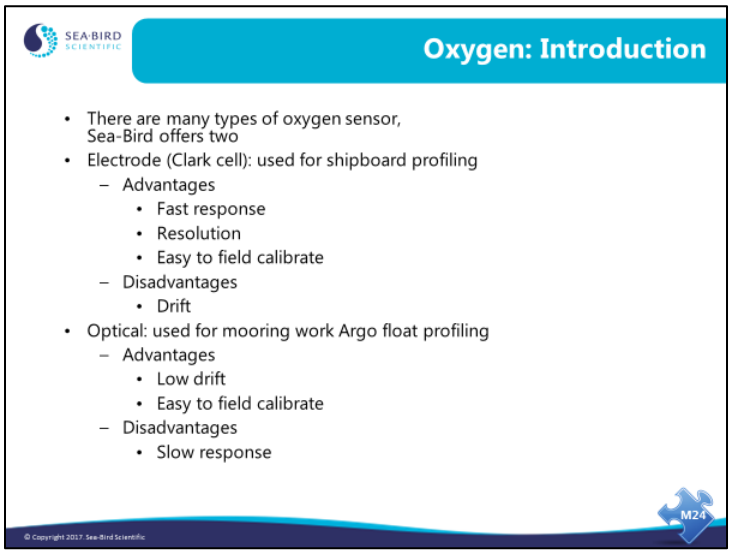
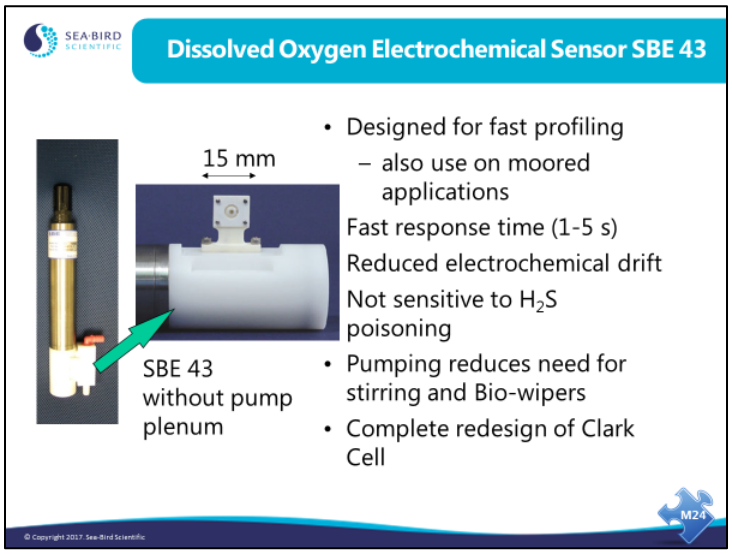
Introduction to Biogeochemical Sensors

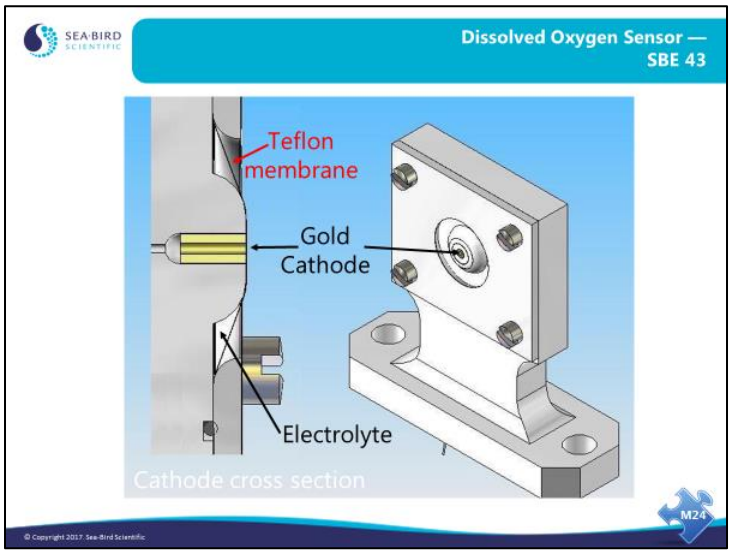
Introduction to Oxygen Sensors



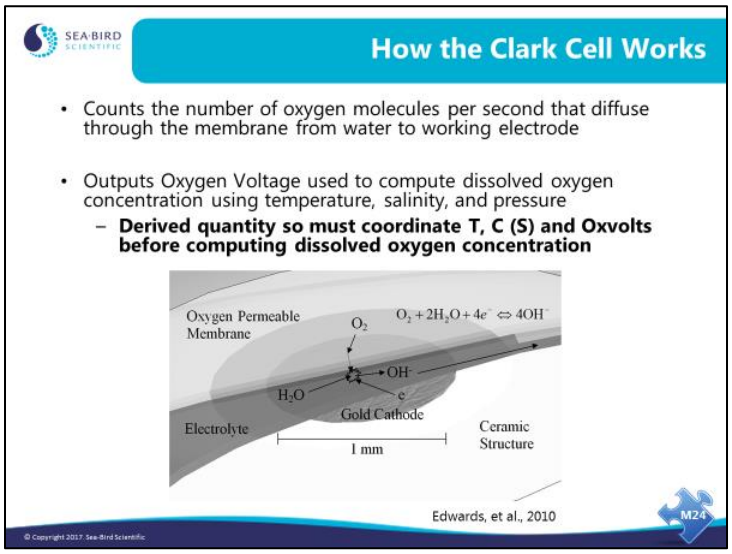
Electrochemical Dissolved Oxygen Sensor



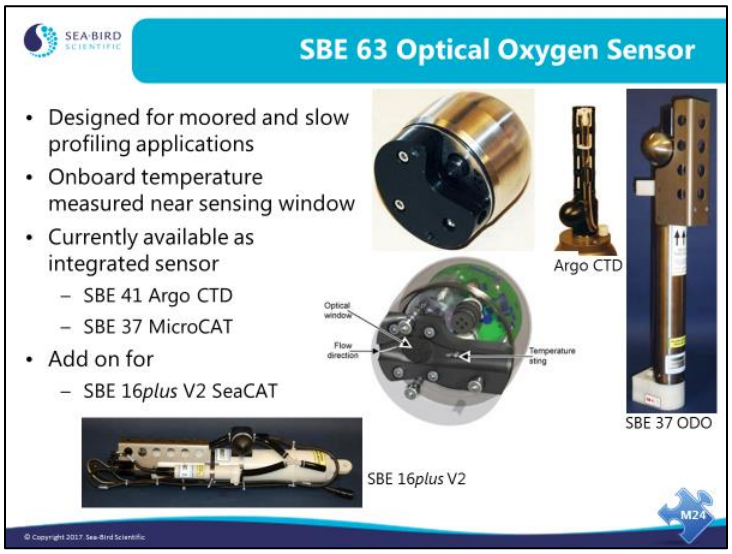
Electrochemical Dissolved Oxygen Sensor *(continued)*



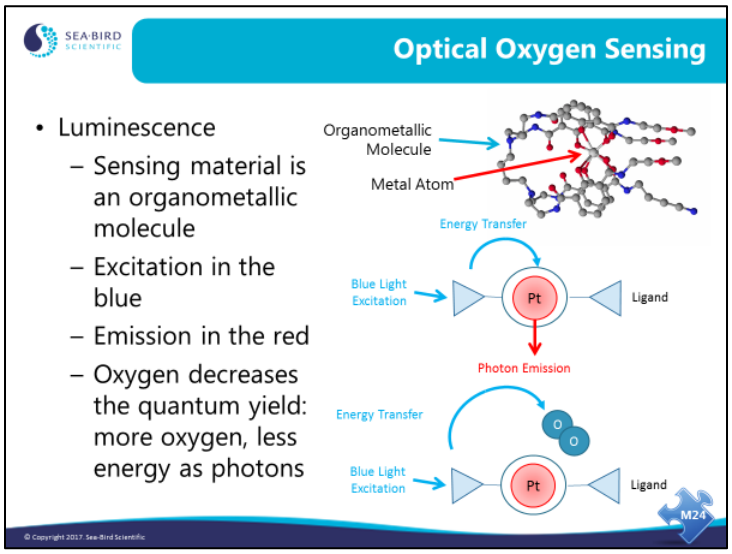
Electrochemical Dissolved Oxygen Sensor *(continued)*



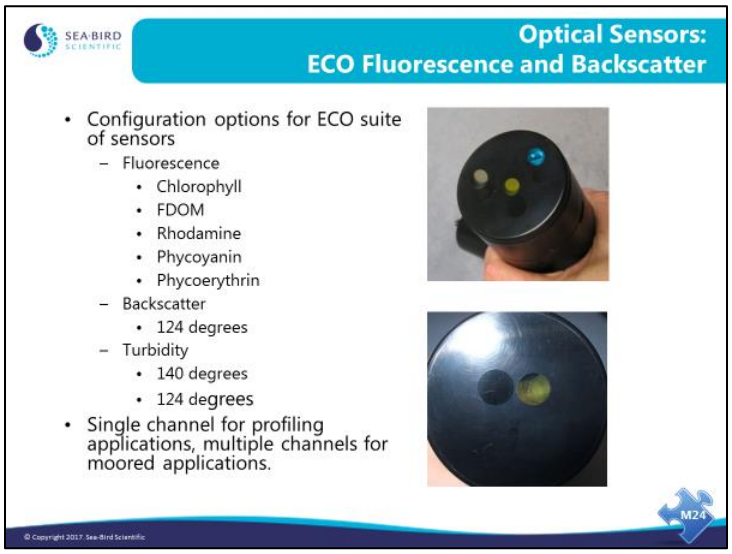
Optical Dissolved Oxygen Sensor



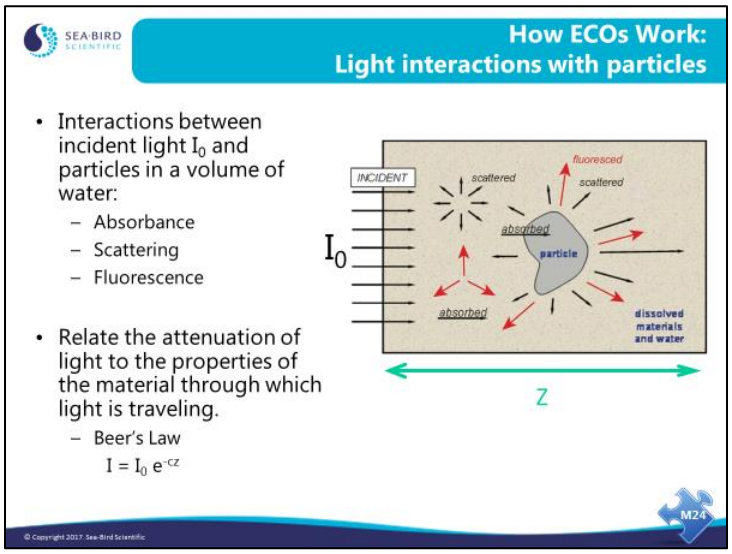
Optical Dissolved Oxygen Sensor *(continued)*



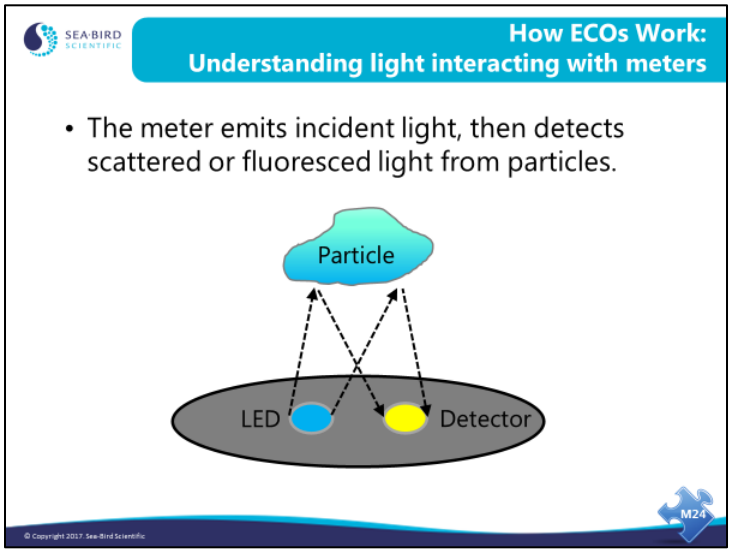
Optical Fluorescence and Backscatter Sensors



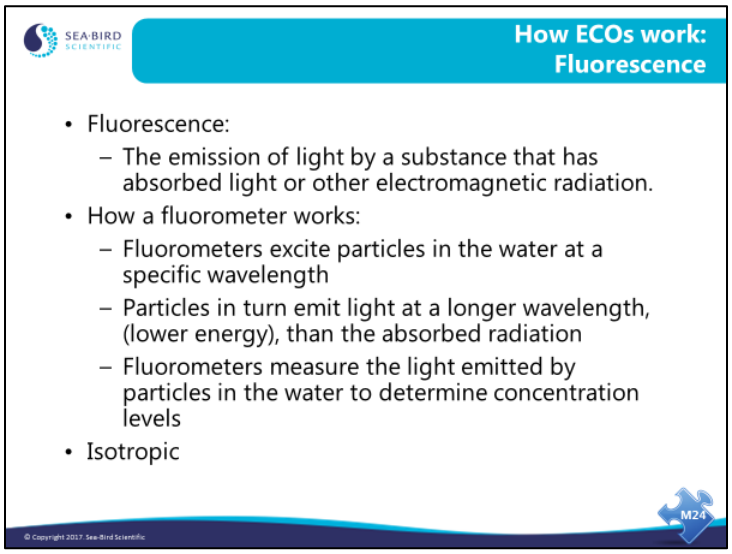
How Optical Fluorescence and Backscatter Work



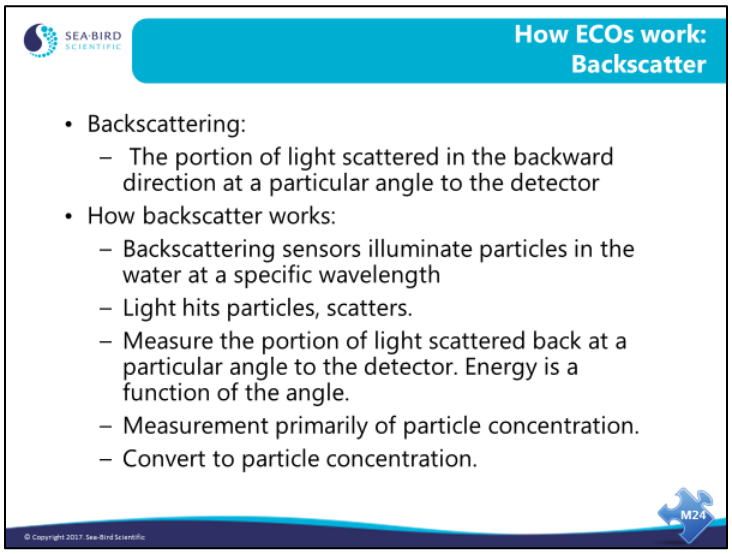
How Optical Fluorescence and Backscatter Work *(continued)*



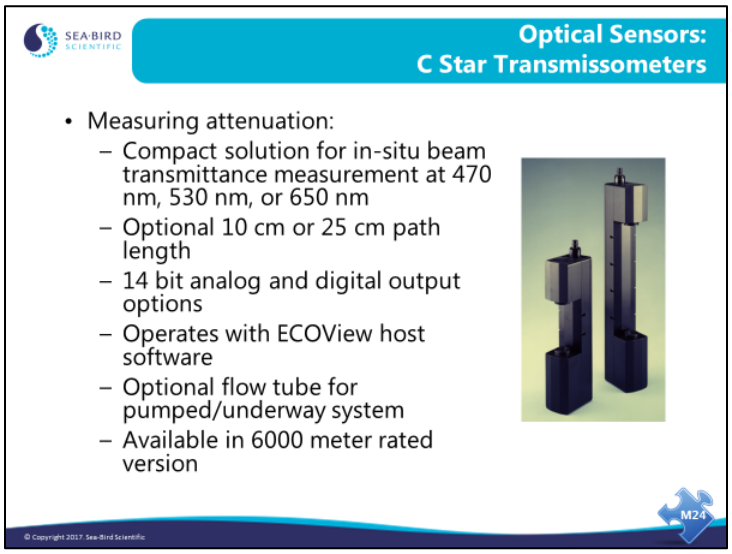
Measuring Fluoresence



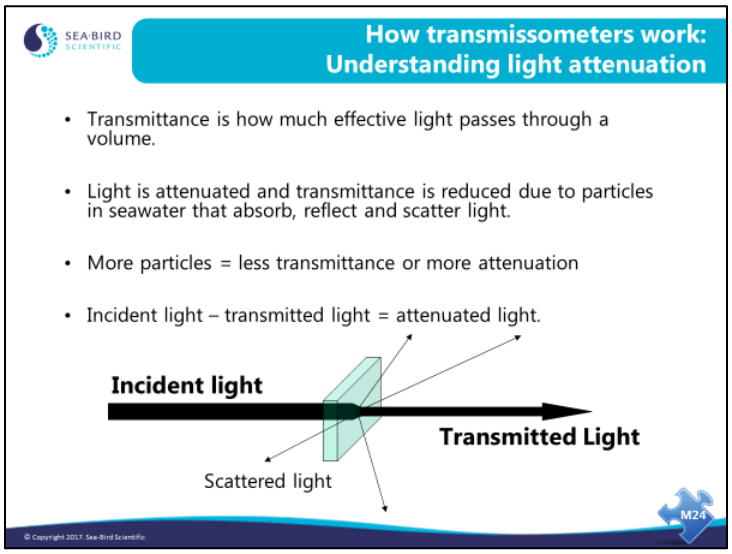
Measuring Backscatter



Introduction to Optical Transmissometers



How Transmissometers Work



How Transmissometers Work *(continued)*