

Breakout session: Emerging technologies for ocean color

Chair: Mike Twardowski (HBOI-FAU)

Co-Chair: Griet Neukermans (LOV)

Abstract: This session will focus on breakthrough technologies for ocean color remote sensing research. Interactive talks will be given for key areas of ocean color observing, each followed by a group discussion. Presentations and discussions will be organized into a peer reviewed publication to raise awareness of these breakthroughs in the ocean color community.

Agenda

09:30 - 09:35 Introduction to session. **Mike Twardowski** (HBOI-FAU)

09:35 – 09:50 Radiometric validation: HYPERNETS/WATERHYPERNETS next generation hyperspectral, multi-view validation system. **Kevin Ruddick** (RBINS)

09:50 – 10:00 Radiometric cal/val: HYPERNAV float. **Andrew Barnard** (SeaBird)

10:00 – 10:10 Radiometric cal/val: ProVal float. **Griet Neukermans** (LOV)

10:10 – 10:40 Group Discussion: Radiometric cal/val advances in support of OC missions.

Coffee available (without break)

10:40 – 10:50 Inherent optical property validation: Hyperspectral backscattering sensor. **Wayne Slade** (Sequoia Scientific)

10:50 – 11:20 Group Discussion: IOP advances for validation for OC missions

11:20 – 11:35 The remote sensor and platform: A novel spatial light modulator imaging system for high altitude platforms. **Mike Twardowski** (HBOI-FAU)

11:35 – 12:05 Group discussion: Remote sensor and platform advances for OC missions - this will focus on new potential applications for breakthrough technologies in ocean color such as these and their potential to directly support or compliment ongoing and future international ocean color missions.

12:05 – 12:15 Summary and preparation of key messages.