

IOCCG Summer Lecture Series 2018

“Frontiers in Ocean Optics and Ocean Colour Science”

Villefranche-sur-Mer, France (25 June - 7 July 2018)

The 2018 IOCCG Summer Lecture Series, dedicated to high-level training in the fundamentals of ocean optics, bio-optics and ocean colour remote sensing will take place at the Laboratoire d’Océanographie de Villefranche (LOV), France from 25 June - 7 July 2018. Prospective students can apply online at: <http://ioccg.org/what-we-do/training-and-education/ioccg-sls-2018/> (**deadline 5 March 2018**).

Several distinguished scientists have been invited to provide lectures and practical sessions on cutting edge research, focusing on current critical issues in ocean colour science. Students will be given ample opportunity to meet with the lecturers for in-depth discussions on various pre-selected topics, as well as on their own scientific research. This training course is open to young graduate scientists and post-doctoral fellows, as well as researchers with a longer record in ocean colour research hoping to broaden their knowledge. Reports and videos from previous IOCCG Summer Lecture Series can be viewed [here](#).

Course content

The emphasis of the course will be on current critical issues in ocean colour science, and will consist of lectures by specialists as well as a few hands-on practical sessions. Participants should be familiar with downloading and processing satellite ocean colour imagery. Lectures will tentatively cover the following topics (final agenda to be provided at a later date):

- Fundamentals of inherent and apparent optical properties (IOPs and AOPs)
- Optics of marine particles
- Introduction to Hydrolight (with practical sessions)
- Ocean scattering
- Radiometry, measurements and uncertainties
- Atmospheric correction
- Ocean colour remote sensing in turbid waters
- Coccolithophores: optical properties and biogeochemistry
- Harmful algal blooms
- Practical ac-labs
- Using the Copernicus data sets (practical sessions)

Cost

There is no fee for the lecture series but students are expected to cover some of their own expenses including meals, taxis and airfare. Free accommodation will be available for all students. A limited number of scholarships will be available from EUMETSAT, SCOR and OCB.

Course Sponsors

The course will be sponsored by:

- IOCCG (International Ocean-Colour Coordinating Group)
- CNES (Centre National d’Etudes Spatiales, France)

- EUMETSAT (European Organisation for the Exploitation of Meteorological Satellites)
- OOV (Villefranche Observatory) and LOV (Laboratoire d'Océanographie de Villefranche)
- OCB (Ocean Carbon & Biogeochemistry Program, USA)
- SCOR (scientific Committee on Oceanic Research)

The 2018 IOCCG Summer Lecture Series website will be updated periodically, so please bookmark this link: <http://ioccg.org/what-we-do/training-and-education/ioccg-sls-2018/>.

Applications will be open from 1 February 2018 to 5 March 2018.