

Tue. May  
29th

## OSCA WORKSHOP

09:00

**OSCA 2024 - Welcome**

09:15 - 09:30

**ONERA Scientific Directorate**

Cristina  
Rotaru

ONERA, Scientific Directorate

France

09:30 - 10:15

**Tutorial: Digital lensless holographic  
microscopy: Fundamentals, applications, and  
opportunities of use in aerosol science.**

Jorge  
Sucerquia

Universidad Nacional de  
Colombia Sede Medellin

Colombia

*Coffee Break*

11:00 - 11:20

The role of the European Aerosol Lidar Network  
(EARLINET) in the Aerosol, Clouds and Trace  
Gases Research Infrastructure (ACTRIS)

Adolfo  
Comeron

Univ. Politecnica de Catalunya

Spain

11:20 - 11:40

Single Particle Extinction and Scattering for  
measuring optical properties of aerosol

Marco  
Potenza

University of Milan

Italy

11:40 - 12:00

Mobile Aerosol Monitoring combining Lidar  
and Photometer

Maria  
Fernanda  
Sanchez  
Barrero

LOA, Lille University

France

*Lunch Break*

14:00 - 14:45

**Tutorial: Aerosol characterization with  
digital in-line holography**

Matthew J.  
Berg

Kansas State University

USA

14:45 - 15:05

Are terrestrial and extraterrestrial aerosols  
so different?

Olga Muñoz

Instituto de Astrofísica de  
Andalucía, CSIC

Spain

15:05 - 15:25

Angular light scattering in an axisymmetric  
laminar flame: influence of self-absorption  
on soot sizing

Jerome Yon

INSA Rouen, CORIA

France

*Coffee Break*

15:45 - 16:05

Polarimetric light scattering from aerosols, a cheap  
alternative to lidar

Gorden  
Videen

Space Science Institute Boulder

USA

16:05 - 16:25

Laboratory experiment at 180.0° backscattering  
angle: lidar PDR dependency on refractive  
index and size  
  
across several aerosol types: mineral dust,  
pollen, soot

Alain Miffre

ILM, Lyon University

France

16:25 - 16:45

What does the spectral slope of the  
depolarization ratio tell us?

Moritz  
Haarig

TROPOS, Leibniz Institute for  
Tropospheric Research.

Germany

Wed. June 30th

**OSCA  
WORKSHOP**

09:00

**OSCA 2024 - Welcome**

09:15 - 09:30

**ONERA Space Directorate**

Nicolas Riviere

ONERA, Toulouse  
University

France

09:30 - 10:15

**Tutorial: Aerosol characterization  
with HSRL lidar**

Yoshitaka Jin

NIES, Tsukuba, Japan

Japan

*Coffee Break*

11:00 - 11:20

Study of aerosol properties and aerosol-cloud interactions using laser-induced fluorescence lidar observations

Qiaoyun HU

LOA, Lille University

France

11:20 - 11:40

Short range elastic backscattering lidar as a new tool for probing aerosol properties

Romain Ceolato

ONERA, Toulouse  
University

France

11:40 - 12:00

Multi Spectral Lidar acquisitions at 28 wavelengths on 2 types of aerosols

Gregoire Tremblay

DRDC-RDDC

Canada

*Lunch Break*

14:00 - 14:20

Recent advances in the modeling and the metrology of light scattered by optical surfaces.

Myriam Zerrad

Insitut Fresnel, Marseille  
University

France

11:40 - 12:00

Radiative properties of artificial and natural cirrus clouds using a co-located ground-based lidar and all-sky camera at ONERA, Toulouse

Andres Bedoya

ONERA, Toulouse  
University

France

14:20 - 14:40

Cavity-enhanced multi-wavelength light extinction and scattering measurements for drone-based soot particle characterization

Marek Mazur

INSA Rouen, CORIA

France

*Coffee Break*

15:10 - 15:30

MIMOSA, a new Multi-Incidences, Multi-Orientations, Scattering/diffraction/RCS analyser

Jean-Michel Geffrin

Insitut Fresnel, Marseille  
University

France

15:30 - 15:50

Radiative properties of dielectric and absorbing aggregates

Llorenç Cremonesi

University of Milan

Italy

15:50 - 16:15

**OSCA 2024 - Conclusion**

Romain Ceolato

ONERA, Toulouse  
University

France