

## **ACTRIS Week 2021 – Draft programme of Science Session – Thursday, 28 October 2021, 13:00 – 16:30 CEST**

*Effects on the atmosphere state of restrictions related to COVID-19*

13:00 – 13:15

Stuart K. Grange, James D. Lee, Will S. Drysdale, Alastair C. Lewis, Christoph Hueglin, Lukas Emmenegger, Stefan Reimann, and David C. Carslaw

*EMPA, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland*

### **The impact and implications of COVID-19 mobility restrictions on European air quality**

13:15 – 13:30

Konstantinos Eleftheriadis<sup>1</sup>, Maria I. Gini<sup>1</sup>, Evangelia Diapouli<sup>1</sup>, Stergios Vratolis<sup>1</sup>, Vasiliki Vasilatou<sup>1</sup>, Prodromos Fetfatzis<sup>1</sup>, Manousos I. Manousakas<sup>1,2</sup>

<sup>1</sup>*ERL, INRASTES, NCSR Demokritos, 15310 Ag. Paraskevi, Athens, Greece;* <sup>2</sup>*LAC, Paul Scherrer Institute, Villigen PSI, Switzerland*

### **The effect of COVID19 lockdown on urban air quality in Athens observed through aerosol in-situ metrics**

13:30 – 13:45

Alessia Sannino<sup>1</sup>, Mariagrazia D'Emilio<sup>2</sup>, Pasquale Castellano<sup>3</sup>, Salvatore Amoruso<sup>1,4</sup>, Antonella Boselli<sup>2,3</sup>

<sup>1</sup>*Dipartimento di Fisica "Ettore Pancini" Università di Napoli Federico II, Complesso Universitario di Monte S. Angelo, I-80126 Napoli, Italy;* <sup>2</sup>*Istituto di Metodologie per l'Analisi Ambientale, Consiglio Nazionale delle Ricerche, I-85050 Tito Scalo-Potenza, Italy;* <sup>3</sup>*ALA Advanced Lidar Applications s.r.l. Corso Meridionale 39, I-80143 Napoli, Italy;* <sup>4</sup>*CNR-SPIN, UOS Napoli, Complesso Universitario di Monte S. Angelo, I-80126 Napoli, Italy*

### **Air quality change during the COVID – 19 Pandemic Lockdown: a case study in Naples (Italy)**

13:45 – 14:00

A. Tsekeri<sup>1</sup>, A. Gialitaki<sup>1</sup>, M. Di Paolantonio<sup>2</sup>, D. Dionisi<sup>2</sup> et al.

<sup>1</sup>*IAASARS, National Observatory of Athens, Athens, Greece,* <sup>2</sup>*CNR-ISMAR, Rome, Italy and many other EARLINET/ACTRIS institutions*

### **Characterization of the anthropogenic aerosol profiles in Europe, during the COVID-19 EARLINET campaign, in May 2020**

*Impact of forest fires and other climate related studies*

14:00 – 14:15

Kevin Ohneiser<sup>1</sup>, Albert Ansmann<sup>1</sup>, Bernd Kaifler<sup>2</sup>, Alexandra Chudnovsky<sup>3</sup>, Boris Barja<sup>4</sup>, Holger Baars<sup>1</sup>, Patric Seifert<sup>1</sup>, Cristofer Jimenez<sup>1</sup>, Martin Radenz<sup>1</sup>, Ronny Engelmann<sup>1</sup>

<sup>1</sup>Leibniz Institute for Tropospheric Research, Leipzig, Germany; <sup>2</sup>Deutsches Zentrum für Luft- und Raumfahrt, Institut für Physik der Atmosphäre, Oberpfaffenhofen, Germany; <sup>3</sup>Tel Aviv University, Porter School of Earth Sciences and Environment, Tel Aviv, Israel; <sup>4</sup>Atmospheric Research Laboratory, University of Magallanes, Punta Arenas, Chile

**Long-term lidar measurements of Australian wildfire smoke layer in the stratosphere over southern South America in 2020-2021: Potential influence on ozone reduction?**

14:15 – 14:30

Qiaoyun Hu<sup>1</sup>, Philippe Goloub<sup>1</sup>, Igor Veselovskii<sup>2</sup>, and Thierry Podvin<sup>1</sup>

<sup>1</sup>Univ. Lille, CNRS, UMR 8518 - LOA - Laboratoire d'Optique Atmosphérique, F-59000 Lille, France; <sup>2</sup>Prokhorov General Physics Institute of the Russian Academy of Sciences, Moscow, Russia

**The characterization of California smoke plumes over Lille: what can a multi-wavelength Mie-Raman-polarization-fluorescence lidar provide?**

14:30 – 15:00 **Break**

15:00 – 15:15

B. T. Brem<sup>1</sup>, N. Bukowiecki<sup>1</sup>, M. Collaud Coen<sup>2</sup>, M. Steinbacher<sup>3</sup>, S. Henne<sup>3</sup>, S. Reimann<sup>3</sup>, U. Baltensperger<sup>1</sup> and M. Gysel-Beer<sup>1</sup>

<sup>1</sup>Laboratory of Atmospheric Chemistry, Paul Scherrer Institute, CH-5232, Villigen PSI, Switzerland; <sup>2</sup>Federal Office of Meteorology and Climatology, MeteoSwiss, CH-1530 Payerne, Switzerland; <sup>3</sup>Laboratory for Air Pollution/Environmental Technology, Empa, CH-8600 Dübendorf, Switzerland

**Occurrence and Radiative Properties of Long-range Transported Wildfire Aerosol Plumes Measured at the Jungfraujoch**

15:15 – 15:30

Maria Kezoudi<sup>1</sup>, Constantina Rousogenous<sup>1</sup>, Franco Marengo<sup>1,2</sup>, Mihalis Vrekoussis<sup>1,3</sup>, Thorsten Warneke<sup>3</sup>, Justus Notholt<sup>3</sup>, Frank Wienhold<sup>4</sup> and Jean Sciare<sup>1</sup>

<sup>1</sup>Climate and Atmosphere Research Center (CARE-C), The Cyprus Institute, Cyprus; <sup>2</sup>Met Office, United Kingdom; <sup>3</sup>Institute of Environmental Physics, IUP, University of Bremen, Germany; <sup>4</sup>Institute for Atmospheric and Climate Science (IAC), University of Zurich, Switzerland

**Detection of an elevated smoke layer over Cyprus originated from Eastern Mediterranean wildfires**

*Other results from ACTRIS activities*

15:30 – 15:45

Simone Kotthaus, Martial Haeffelin, Melania VanHove  
*Institut Pierre Simon Laplace, Paris, France.*

**Variability of atmospheric boundary layer height across Europe from ground-based remote sensing**

15:45 – 16:00

F. Navas-Guzmán<sup>1,2</sup>, G. Martucci<sup>1</sup>, M. Collaud Coen<sup>1</sup>, A. Barreto<sup>3</sup>, J. A. Ruiz-Arias<sup>4</sup>, H. Lyamani<sup>4</sup>, C. Hüglin<sup>5</sup>, D. Pérez-Ramírez<sup>2</sup>, G. Titos<sup>2</sup>, L. Alados-Arboledas<sup>2</sup>, B. T. Brem<sup>6</sup>, M. Gysel-Beer<sup>6</sup>, and A. Haeferle<sup>1</sup>

<sup>1</sup>Federal Office of Meteorology and Climatology MeteoSwiss, Payerne, 1530, Switzerland;

<sup>2</sup>Andalusian Institute for Earth System Research, University of Granada, Granada, 18006, Spain;

<sup>3</sup>Izaña Atmospheric Research Center, Meteorological State Agency of Spain (AEMET), Spain;

<sup>4</sup>Department of Applied Physics I, University of Málaga, Málaga, 29071, Spain; <sup>5</sup>EMPA, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, 8600, Switzerland;

<sup>6</sup>Laboratory of Atmospheric Chemistry, Paul Scherrer Institute, Villigen, 5232, Switzerland

**Characterization of aerosol hygroscopicity using remote sensing techniques**

16:00 – 16:15

A. Barreto<sup>1</sup>, R. Román<sup>2</sup>, M. Sicard<sup>3</sup>, V. Rizi<sup>4</sup> et al.

<sup>1</sup>Izaña Atmospheric Research Center, Meteorological State Agency of Spain (AEMET), Spain;

<sup>2</sup>Group of Atmospheric Optics (GOA-UVa), Universidad de Valladolid, Valladolid, Spain;

<sup>3</sup>Universitat Politècnica de Catalunya, Barcelona, Spain; <sup>4</sup>INFN-GSGC L'Aquila and CETEMPS-DSFC, Università degli Studi dell'Aquila, L'Aquila, Italy and other ACTRIS and outside ACTRIS institutions

**Characterization of volcanic aerosols from a synergetic perspective during Cumbre Vieja (La Palma) eruption**

16:15 – 16:30

Eleni Marinou<sup>1</sup>, Holger Baars<sup>2</sup>, Nikos Siomos<sup>1</sup>, Peristera Paschou<sup>1</sup> et al.

<sup>1</sup>NOA, Greece; <sup>2</sup>Tropos, Germany, and many other ACTRIS and outside ACTRIS institutions

**ACTRIS contribution on the Joint Aeolus Tropical Atlantic Campaign 2021**