

PAPILA Summer School
Preliminary Program (v. 25 Feb)

20 April – 24 April 2020 in Santiago, Chile

Sponsors: The EU PAPILA Project, MAP-AQ (IGAC and WMO)

Venue: University of Chile, Santiago, Faculty of Physical Sciences and Mathematics
Beauchef 851, room B07

Day 1: Monday, 20 April 2020

Morning

General Presentations

09:00 Welcome (**L. Gallardo**, **G. Brasseur**)

09:30 Predictive models of atmospheric chemistry: A historical perspective (**G. Brasseur**)

10:30 Coffee break

11:00 Fundamentals of air pollution science. (**L. Gallardo**)

12:00 Fundamentals of air pollution modeling. (**M. Sofiev**)

13:00 Lunch

Afternoon

14:30 **Focused Presentation:** CAMS: global AQ forecast and regional downscaling
(**M. Sofiev**, FMI)

15:30 Coffee break

15:45 **Group work** (half of the school participants in each group, about 1.5 hour each)

1. Air Quality Prediction System: the example of Panda in China (**I. Bouarar**, MPI-M)
2. Improving our understanding of African dust transport using the Caribbean as a receptor
(**O. Mayol**)

17:30 End of day

Day 2: Tuesday, 21 April 2020

Morning

General Presentations:

09:00 Formulation of transport in chemical models and chemical solvers (**G. Brasseur**)

10:00 Coffee break

10:30 In situ measurements of air pollutants (**Rodrigo José Seguel**)

11:30 Observations of air pollution and data Assimilation: satellites (**Deborah Stein Zweers**, KNMI)

12:30 Lunch

Afternoon

14:00 **Focused Presentation:** International Programs (**G. Brasseur**)

15:30 Coffee break

15:45 **Group work** ((half of the school participants in each group, about 1.5 hour each)

1. Aerosol measurements from ground-based stations in the LAC region (**Olga Mayol**)
2. Read and plot netCDF and HDF data (**S. Darras and N. Elguindi**)

17:30 End of day

Day 3: Wednesday, 22 April 2020

Morning

General Presentations

9:00 What makes LA special (**Paula Castasena**)

10:00 Coffee break

10:30 Methodology towards emission inventories (**C. Granier**, CNRS)

11:30 Natural and pyrogenic emissions (vegetation, oceans, fires)
(**Jana Doubalova ,Michael Gauss, Claire Granier**)

12:30 Lunch

Afternoon

14:00 Group photo

14:30 **Group work**

1. Emission data bases (C. Granier and S. Darras)

15:00 Coffee break

15:30 End of day

Day 4: Thursday, 23 April 2020

Morning

General Presentations

9:00 Air pollution forecast: Meteorology (Guy Brasseur)

10:00 Coffee break

10:30 Air pollution forecast: Air quality (M. Sofiev and/or M. Gauss)

11:30 Emission data bases for Latin America (Laura Davidowski and Mauricio Osses)

12:30 Lunch

Afternoon

14:00 **General discussion** about air quality

15:30 Coffee break

15:45 Group work

1. Model evaluation (Idir Bouarar)
2. Dust forecast (Nicolas Huneeus)

17:30 End of day

Day 5: Friday, 24 April 2020

Morning

General Presentation

09:00 Impacts of air pollution: Health (**C. Liousse**, CNRS)

10:00 Coffee break

10:30 Impact of air pollution: Policy (**M. Gauss**)

11:30 tbd

12:30 Lunch

Afternoon

14:00 Presentation by the small groups of students.

15:30 Coffee break

16:30 Conclusions (**G. Brasseur and L. Gallardo**)

17:30 End of day