

## **Virtual PAPILA Summer School**

### **20 - 24 April 2020**

**Sponsors:** The EU PAPILA Project, MAP-AQ (IGAC and WMO)  
The University of Chile in Santiago and the Max Planck Institute for Meteorology in Hamburg

**Lectures online by Zoom**  
*Invitation link will be provided by email.*

**Time in CET. Time in Chile** (6 hours difference between Germany and Chile)

#### **Day 1: Monday, 20 April 2020**

**15:00 (9:00 am)**

Welcome: Predictive models of atmospheric chemistry: A historical perspective  
(**Guy Brasseur**)

**15:30 (9:30 am)**

WMO Training materials and best practices for chemical weather/air quality forecasting  
(CW-AQF) (**Alexander Baklanov**)

**16:00 – 16:30 (10:00am -10:30am)**

Coffee break

**16:30 (10:30 am)**

Fundamentals of air pollution science. (**Laura Gallardo**)

**17:30 (11:30 am)**

End of day

#### **Day 2: Tuesday, 21 April 2020**

**15:00 (9:00 am)**

Fundamentals of air pollution modeling. (**Mikhail Sofiev**)

**16:15 – 16:45 (10:15am-10:45am)**

Coffee break

**16:45(10:45 am)** (11:45am in Brazil)

Approaches for an integrated study of urban air pollution (**Maria de Fatima Andrade**)

**17:30 (11:30 am)**

End of day

### Day 3: Wednesday, 22 April 2020

**15:00 (9:00 am)**

Emission inventories (Claire Granier)

**16:15 – 16:45 (10:15 – 10:45)**

Coffee break

**16:45(10:45 am)**

Formulation of transport in chemical models and chemical solvers (Guy Brasseur)

**17:30 (11:30 am)**

End of day

### Day 4: Thursday, 23 April 2020

**15:00 (9:00 am)**

Measurements and data analysis of ozone and volatile organic compounds  
(Rodrigo José Seguel)

**15:45 - 16:15 (9:45am-10:15am)**

Coffee break

**16:15 (10:15 am)**

Observations of air pollution and data assimilation satellites ( Deborah Stein Zweers and  
Henk Eskes )

**17:30 (11:30 am)**

End of day

### Day 5: Friday, 24 April 2020

**15:00 (9:00 am) (7:00 am in Boulder)**

Field campaigns: The example of FRAPPÉ (Gabriele Pfister)

**16:00-16:30 (10:00am-10.30am)**

Coffee break

**16:30 (10:30 am)**

Impact of air pollution: Policy and health (Michael Gauss and Cathy Liousse)

**17:30 (11:30 am)**

Conclusions (G. Brasseur and L. Gallardo)

**17:45 (11:45 am)**

End of the school

### **Lectures by**

- Alexander Baklanov, World Meteorological Organization, Geneva, Switzerland
- Guy P. Brasseur, Max Planck Institute for Meteorology, Hamburg, Germany and National Center for Atmospheric Research, Boulder, CO, USA
- Laura Gallardo, University of Chile, Santiago de Chile
- Michael Gauss, Norwegian Meteorological Institute, Oslo, Norway
- Claire Granier, Laboratoire d'Aérodynamique, Toulouse, France and NOAA/CIRES, Boulder, CO, USA
- Cathy Lioussé, Laboratoire d'Aérodynamique, Toulouse, France
- Gabriele Pfister, National Center for Atmospheric Research, Boulder, CO, USA
- Rodrigo José Seguel, University of Chile, Santiago de Chile
- Mikhail Sofiev, Finnish Meteorological Institute, Helsinki, Finland
- Deborah Stein Zweers, Royal Meteorological Institute of the Netherlands
- Henk Eskes, Royal Meteorological Institute of the Netherlands
- Maria de Fatima Andrade, University of Sao Paulo, Brazil