

*Preliminary Program*

**PAPILA Summer School 28 October – 3 November 2019**

**Day 1**

**Morning**

***General Presentations***

1. Welcome (L. Gallardo, G. Brasseur)
2. Predictive models of atmospheric chemistry: A historical perspective (G. Brasseur)
3. Fundamentals of air pollution science. (L. Gallardo)
4. Fundamentals of air pollution modeling. Part 1 (G. Brasseur)

**Afternoon**

Small groups will be formed. They will include 4-5 persons. These groups will be asked to work on a problem during the period of the school and to report on their achievements on Friday afternoon. These groups will also attend the “group work sessions scheduled in the afternoon.

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

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

1. Access to cams data as boundary conditions (I. Bouarar)
2. International observation data bases (WMO/GAW, Airbase, etc.) (A. Baklanov)

**Day 2**

**Morning**

***General Presentations:***

1. Fundamentals of air pollution modeling. Part 2 (M. Sofiev)
2. Observations of air pollution part 1: ground based (A. Wiedensohler)
3. Observations of air pollution part 2: satellites (TBD)

## **Afternoon**

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

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

1. Data bases for South America (TBD: N. Rojas or M. Andrade)
2. Read and plot netCDF and HDF data (S. Darras and N. Elguindi)

## **Day 3**

### **Morning**

#### ***General Presentations***

1. Anthropogenic emissions (C. Granier)
2. Pyrogenic emissions (TBD)
3. Natural emissions (vegetation, soils, oceans) (TBD)

### **Afternoon**

***Focused Presentation:*** TBD

***Group work***

1. Emission data bases (C. Granier and S. Darras)
2. Emission data bases for Latin America (Laura Davidowski)

## **Day 4**

### **Morning**

#### ***General Presentations***

1. Air pollution forecast: meteorology (TBD)
2. Air pollution forecast: Air quality (TBD: M. Sofiev or M. Gauss)
3. Presentation: TBD What makes LA special: Paul Castesana

## **Afternoon**

***Focused Presentation:*** Prediction of Urban air quality incl. LES (TBD)

### ***Group work***

1. Model evaluation (I. Bouarar)
2. Dust forecast (Nicolas Huneus)

## **Day 5**

### **Morning**

#### ***General Presentation***

1. Impacts of air pollution: Health (C. Liousse)
2. Impact of air pollution: Policy (M. Gauss)
3. Stakeholder involvement: TBD

### **Afternoon**

Presentation by the small groups

Conclusions (G. Brasseur and L. Gallardo)