

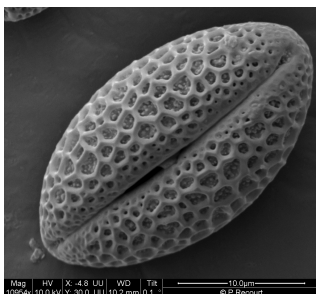
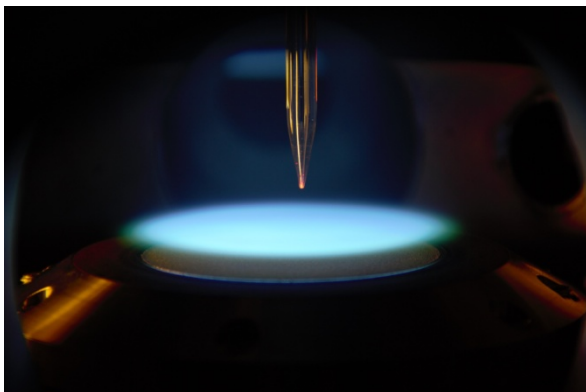
MSc Atmospheric Sciences

International master program
Master in Physical Chemistry and Master in
Physics

A 2-year program training (120 ECTS)

in chemistry and physics of
the atmosphere, at the highest level

keywords



VOCs

Mass spectrometry

spectroscopy

PM_{2.5}

Atmospheric remote sensing

soot

air quality

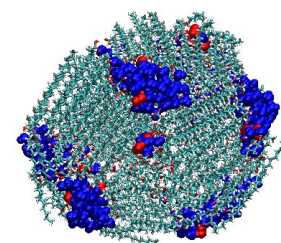
clouds

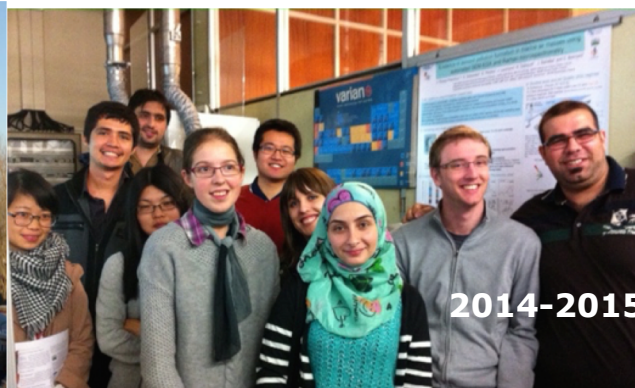
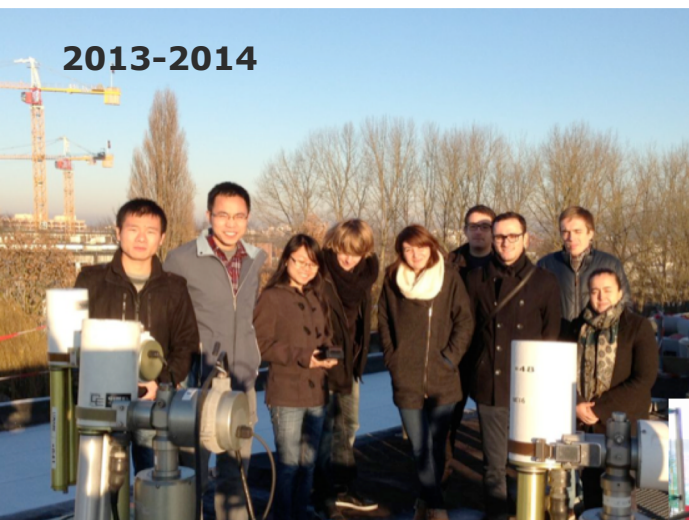
reactivity

aerosol

GC/MS

greenhouse gases





More than 14 nationalities represented since 2013



Context

Context : international and dynamic

Students will be :

- immersed in an international environment
all courses are delivered in english
- involved in events organised by the project « Laboratory of Excellence CaPPA »
bringing together 7 laboratories



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<http://www.isite-ulne.fr/index.php/en/graduate-programme-science-for-a-changing-planet/>



7 DEDICATED MASTER'S DEGREES
IN LILLE, FRANCE



TRAINING TO & THROUGH RESEARCH
FOR MASTER & PhD STUDENTS



Lille at the center of Europe





Application

Application

Condition

- **For the 1st year, having completed a Bachelor (180 ECTS validated)** diploma in: Chemistry, Physical Chemistry, or Physics.
- **For the 2nd year:** a first year of a Master (60 ECTS validated) in Physics or Applied Physics or Chemistry or Physical Chemistry.

Application and Dead lines

- International students must complete the Campus France procedure as soon as possible (www.campusfrance.org/en) for application to the Master and Student Visa.

Deadline Campus France: 06/03/2020

- Students with no Campus France agency and Europeans have to go through the university's application program e-candidat (<https://ecandidat-2020.univ-lille.fr/>)

Deadline e-candidat: 02/03 to 24/04/2020

Language level

The advised **language level** in the Common European Framework correspond to B1. A copy of your certificate with your score for either TOEFL, or IELTS or TOIC should be provided. If you don't hold any English language certification when filing your application, please proceed to your self- assessment by [creating your own Europass Language Passport](#). If English is the medium of instruction in your university, then an official certificate stating this, issued by an officer of your university will be accepted instead of IELTS or Toefl.

Scholarships

Condition

available for students having the most excellent academic records

Amounts

each selected candidate will receive

7 500 € for the academic year

(3 250 + 3 250 only if the previous semester is validated)

More information

will be found online on the application form

<http://www.labex-cappa.fr/en/master-atmospheric-environment/fellowships>

Scholarship applicants must fill and return the application before: 6 March 2020



Pedagogical contents

Objectives

- To understand atmospheric processes from the molecular scale to the global scale.
- To learn through a wide range of training theoretical courses, seminars, practical and lab project.
- To get professional experience through research training.
- To develop strong experimental skills (spectroscopic techniques, analytical chemistry, trace species detection, atmospheric monitoring, remote sensing ...).

Msc Atmospheric Sciences

**Master in Applied and
Physics - Matter, Molecules
and their Environments**

**Master in Physical &
Analytical Chemistry**

S3

6 units in Atmospheric Sciences

Gas and aerosols, surface analysis, advanced spectroscopy, laser diagnostics, atmospheric modelling

S2

3 units of Physics

2 units in Atmospheric
Sciences

2 units of Chemical Physics

2 units in Atmospheric
Sciences

Internship (2
months)
(industry/lab
research)
France or
international

S1

4 units of Physics

1 unit Introduction to physics
and chemistry of the
atmosphere

4 units of Chemical Physics

1 unit Introduction to physics
and chemistry of the
atmosphere

1 unit of
Language
+ French

M2- 2nd semester

Research training in Laboratory

FEB
to
JUNE

Full-time research position in lab involved
in the Laboratory of excellence CaPPA



Chemical and Physical Properties
of the Atmosphere



SAGE
Sciences de
l'Atmosphère
et Génie de
l'Environnement





Job opportunities

Job opportunities

■ PhD thesis

wide range of offers will be available in laboratories involved in the project « Laboratory of Excellence CaPPA » (7 laboratories)

possibility to create partnerships to offer PhD thesis with industrial or academic partners

■ Engineer in air quality

■ Engineer in atmospheric measurements

■ Engineer in remote sensing

■ Network

Alumni network bringing together previous students of the MSc 2nd year Atmospheric Environment

Students can also take advantage of the wide industrial and academic network of the project « Laboratory of Excellence CaPPA »

More information

<http://www.labex-cappa.fr/master-atmospheric-sciences>

- ✓ Person in charge of the Speciality Atmospheric Sciences of the Master of Applied and Fundamental Physics
[Dr. Odran Sourdeval](#)
Building P5, office 351 (3rd floor)
- ✓ Persons in charge of the Speciality Atmospheric Sciences of the Master in Physical and Analytical Chemistry

[Dr. Marie Choël](#) & [Dr. Nicolas Visez](#)
Building C5, office 12, (ground floor)
- ✓ Person in charge of the coordination of the Msc training for the labex CAPPA
[Prof. Céline Toubin](#)
Building P5 – office 067 (ground floor)
- ✓ Director of the labex CAPPA
[Prof. Denis Petitprez](#)
Building C11 – office 7 (ground floor)

