

# CV of Stéphane Le Calvé

**Name:** LE CALVÉ

**First name:** Stéphane

**Age:** 53

**Current position:** Research Director (DR1) at CNRS in Strasbourg (UMR 7515)



## Professional experiences

- PhD in Chemistry** – CNRS / LCSR – Orléans – 1995 to 1998 – Speciality: Chemistry of atmospheric pollution and environmental physics. Congratulations of the jury.
- Post-doctoral fellowship** – University College Dublin – Ireland – 1998 to 1999.
- Researcher at CNRS**
  - Surface Geochemistry Center (CGS, UMR 7517) – Strasbourg – 1999 to 2008.
  - Laboratory of Materials, Surfaces and Processes for Catalysis (LMSPC, UMR 7515) – Strasbourg – 2009 to 2012.
  - Institute of Chemistry and Processes for Energy, Environment and Health (ICPEES, UMR 7515) – Strasbourg – from 2013.
- Holder of the Habilitation to Supervise Research (HDR)** – from January 2004.
- Head of the group of Atmospheric Physical Chemistry** (15-20 people) – from January 2009.
- Head of the department of Analytical and Molecular Chemistry** (around 30 people) – from January 2018.

## Supervision, Valuation and Awards

- Supervision of **25 PhD students** (4 in progress) and **49 Master students**.
- Co-author of **115 publications** in peer-reviewed journals (physical chemistry / environment).
- Co-author of **160 oral and poster presentations** at national and international conferences.
- Co-author of **6 patents** including 5 as 1<sup>st</sup> author, **3 licenses**.
- Winner of the 13<sup>th</sup> (2011) National Contest for the Creation of Innovative Companies and Technologies in the "Emergence" category** for the IN'AIR SOLUTIONS project which concerns the "Development and manufacture of instruments for the measurement of indoor air pollutants". Project leader: S. Le Calvé.
- Innovation prize of the Alsace Region (2011)**. Project leader: S. Le Calvé.
- Winner of the 15<sup>th</sup> (2013) National Contest for the Creation of Innovative Companies and Technologies in the "Creation-Development" category** for the IN'AIR SOLUTIONS project. Project leader: S. Englaro.
- Creation of the start-up IN'AIR SOLUTIONS** in July 2013 – Founding member.
- Scientific Consultant** for IN'AIR SOLUTIONS – 2013 to 2019 – 3 licenses resulting from my work.
- Recipient of the CNRS Doctoral and Research Supervisory Bonus** – 2019 to 2022.
- Collaboration with the French company AIRMOTEC/CHROMATOTEC** – since 2020 – 1 license from my work.

## Current research themes

- Research topic 1: **Development of real-time analytical methods based on microfluidic devices for quantification of airborne pollutants (60%).**
- Research topic 2: **Emissions, metrology, and reactivity of pollutants in the atmosphere (10 %).**
- Research topic 3: **Study of VOC sorption on various materials (30 % from 2019).**

## Research management

- Responsible at team level for 37 projects (21 times coordinator) including 6 European projects.**
- Member of the scientific council of the PRIMEQUAL 2 program** (Inter-organism Research Program for a Better Air Quality at the Local Scale, ADEME/Ministry of Environment) – 2006 to 2014 – Responsible for the working group "Indoor Air Quality" in 2012.
- Member of the scientific council of REALISE** (Réseau Alsace de Laboratoires en Ingénierie et Sciences pour l'Environnement) – 2003 to 2015.
- Member of the LMSPC (UMR 7515) Laboratory Council** – 2009 to 2012.
- Member of the Scientific Council of the Institute ICPEES (UMR 7515)** – from 2013.
- Member of the AERES evaluation committee of PC2A** (CNRS and University of Lille) – December 2008.
- Participation in 37 thesis juries** (15 times as external reporter, 2 times as president).
- Expertise of scientific articles** (Atmos. Environ., Chemosensors, Atmosphere, ACS Applied Nano Materials, ACS Omega, SN Applied Sciences, Trends in Environmental Analytical Chemistry, etc.) and **scientific projects** (ANR, ADEME, etc.).
- Member of the editorial board** of the journal « Chemosensors »; **Guest editor** in journals Atmosphere and Chemosensors.

## Teaching activities

- Lectures in atmospheric chemistry and analytical chemistry applied to the environment**, in Master II at the University of Strasbourg, at the School of Chemistry, Polymers and Materials of Strasbourg (EPCM, Analytical Sciences) and at the university institute of technology of Schiltigheim in environmental engineering (about 84 h/year TD equivalent in 2020-2021).
- Member of the **scientific committee of section 31** (CNU) in Strasbourg – 2010 to 2017.