PASCAL FLAMENT

Université du Littoral - Côte d'Opale (ULCO)
Laboratoire de Physico-Chimie de l'Atmosphère (LPCA)
Bâtiment MREI2, 189A Avenue Maurice Schumann
59140 DUNKERQUE (France)
Cellular : +33-676743374
(pascal.flament@univ-littoral.fr)

MAIN ACADEMIC QUALIFICATIONS

1985: PhD Thesis in Spectrochemistry, University of Lille

2004: Habilitation Thesis

POSTDOCTORAL EXPERIENCE

1986 – 1991: Project Manager « Research and Development », Exide Technologies, Gennevilliers, France.

1991 – 1993: Research Engineer at the French Atomic Energy Commission (CEA), National Agency for Radioactive Waste Management (ANDRA).

ACADEMIC EXPERIENCE

1993- 2016: Assistant Professor, Université du Littoral - Côte d'Opale (ULCO), France

Since 2016: Full Professor, Université du Littoral - Côte d'Opale (ULCO), France

Main Research Theme: Pollution Aerosols Physicochemical Dynamics

SOME RECENT SIGNIFICANT PUBLICATIONS

Emissions of non-exhaust particles from road traffic under various driving conditions: Implications for sustainable mobility
A. Beji, K. Deboudt, S. Khardi, B. Muresan, M. Fourmentin, P. Flament and L. Lumière
Transportation Research Part D: Transport and Environment, ***2020****, 81, 102290, (doi:10.1016/j.trd.2020.102290).*

Characterization and source apportionment of single particles from metalworking activities
J. Arndt, R. M. Healy, A. Setyan, P. Flament, K. Deboudt, V. Riffault, L. Y. Alleman, S. Mbengue and J. C. Wenger.
*Environmental Pollution, **2021**, 270, 116078 (doi : 10.1016/j.envpol.2020.116078)*

In-cloud processing as a possible source of isotopically light iron from anthropogenic aerosols: new insights from a laboratory study.
D.S. Mulholland, Flament, P., de Jong, J., Mattielli, N., Deboudt, K. , Dhont, G. and Bychkov, E.
*Atmospheric Environment, **2021**, 259, 118505 (doi : 10.1016/j.atmosenv.2021.118505)*

Laboratory study of iron isotope fractionation during dissolution of mineral dust and industrial ash in simulated cloud water.
Elena C. Maters, Daniel S. Mulholland, Pascal Flament, Jeroen de Jong, Nadine Mattielli, Karine Deboudt, Guillaume Dhont and Eugene Bychkov.
*Chemosphere, **2022**, 299, 134472 (doi: 10.1016/j.chemosphere.2022.134472)*

Development and Characterization of a Time-Sequenced Cascade Impactor: Application to Transient PM2.5 Pollution Events in Urbanized and Industrialized Environments.
S.H. Ngagine, Deboudt, K., Flament, P., Choël, M., Kulinski, P. and Marteel, F.
*Atmosphere, **2022**, 13, 244 (doi:10.3390/ atmos13020244).*

Physical and chemical characteristics of particles emitted by a passenger vehicle at the tire-road contact.
Asma Beji, Karine Deboudt, Bogdan Muresan, Salah Khardi, Pascal Flament, Marc Fourmentin, Laurence Lumiere.
Chemosphere, ***2023**, 139874* (doi:10.1016/j.chemosphere.2023.139874).

CURRENT RESEARCH PROGRAMS

FAAR: Surface complexation: a key phenomenon in **F**e **A**erosols **A**tmospheric **R**eactivity? French ANR funded Project (2024-2026; 120 k€) – *Scientific Coordinator*

CaPPA: Laboratory of Excellence CaPPA – Chemical and Physical Properties of the Atmosphere – funded by the French ANR (2012-2024) – see: https://www.labex-cappa.fr/en/ - *Co-PI of the Workpackage 3 "Aerosol observations: instrumentation, intensive field campaigns, monitoring from ground-based networks and satellites."*

ECRIN: Climate and environmental changes resulting from human activities (French Ministry of Higher Education and "Region Hauts de France" agreement contract 2021-2027)

INTERNATIONAL EXPERTISE

- National Science Foundation (NSF, USA)
- Fonds de Recherche du Québec - Nature et Technologies (FRQNT)