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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

Investigation on the near-field evolution of industrial plumes from metalworking activities

Ari Setyan, **Pascal Flament**, Nadine Locoge, Karine Deboudt, Véronique Riffault, Laurent Y. Alleman, Coralie Schoemaeker, Jovanna Arndt, Patrick Augustin, Robert M. Healy, John C. Wenger, Fabrice Cazier,

Hervé Delbarre, Dorothee Dewaele, Pascale Dewalle, Marc Fourmentin, Paul Genevray, Cyril Gengembre, Thierry Leonardis, Hélène Marris and Saliou Mbengue.
Science of the Total Environment, **2019**, 668, 443-456, (doi : 10.1016/j.scitotenv.2019.02.399).

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).

CURRENT RESEARCH PROGRAMS

. **CHASE** (Unravelling Particle Chemistry in Dronning Maud Land: from atmosphere to surface snow) funded by **BRAIN-be** (BELGIAN RESEARCH ACTION THROUGH INTERDISCIPLINARY NETWORKS): Université Libre de Bruxelles, Vrije Universiteit Brussel, Ghent University, Royal Meteorological Institute of Belgium and ULCO - Four years – Overall Budget : 600 k€.

. **CLIMIBIO** (Changement climatique, dynamique de l'atmosphère et impacts sur la biodiversité et la santé humaine) - Five years – Work Package #1 Co-leader (WP 1 Overall Budget : 428 k€)

INTERNATIONAL EXPERTISE

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

EDITORIAL RESPONSIBILITY

“Atmosphere” Journal (ISSN 2073-4433 ; 2020 Impact Factor : 2,686): Section “Aerosols”
(<https://www.mdpi.com/journal/atmosphere/sectioneditors/aerosols>)