

Stéphane MAZOUFFRE

CNRS Director of Research

Institute for Combustion, Aerothermodynamics, Reactivity and Environment
ICARE, CNRS, UPR 3021

Deputy Director the ICARE laboratory

Head of the ICARE Electric Propulsion team

French, born 3rd of February 1973

Qualification

- 2009** Thesis director certification (*Habilitation*), University of Orléans, France
- 2003** CNRS staff research scientist at ICARE in the field of electric propulsion
- 2001-2003** Postdoctoral fellow at ICARE – Research fields: Rarefied supersonic plasma jets
- 2001** Ph.D. degree in plasma physics (summa cum laude) from the Eindhoven University of Technology, The Netherlands.
- 1996** M.Sc. degree from a French higher engineering school (ENSIL), University of Limoges, in materials science and surface treatments

Expertise and Relevant experience

Expertise: low-temperature plasma physics, electric propulsion, laser-aided diagnostics

Research on EP with CNES, ESA, SAFRAN, Ion-X, Exotrail, Enpulsion, COMAT

Collaborations with foreign Universities: Tokyo, KAIST, Prague, Madrid

Involved in several EU programs: CHEOPS-MP, CHEOPS-VHP, BOOST, MP2S, WET

Head of the ORACLE ICARE-Exotrail joint-lab (2018-2022)

Executive committee of the French Physical Society and of the FPS Plasma Division (2006-2012)

Coordinator of the low-temperature plasma network of the CNRS (2012-2014)

PR manager of the ICARE laboratory (2002 – 2008).

Board of directors of the Electric Rocket Propulsion Society

Chairman of the CNES Propulsion & Aerothermodynamics expert group

Chairman of the 38th International Electric Propulsion Conference (Toulouse, June 2024)

CNRS Innovation Ambassador, Engineering Institute

Member of the IPSA Supervisory Board

Editorial Board of *Plasma Sources Science and Technology* (2012-18), *Aerospace*

Founder and associate editor of the Journal of Electric Propulsion (created in 2021)

Supervision of 15 PhD students and 10 post-doctoral fellows

Supervision of 34 graduate students and 49 undergraduate students

Lecture: Orléans University, IPSA, EPF

Scientific production

120 papers in peer reviewed international journals (+ 12 book chapters),

157 conference proceedings,

50 articles in a general-public magazines and newspapers.

123 contract reports

83 International symposia (28 invited talks)

4 patents - 2 Invention Declarations - 4 Soleau envelopes

Recognitions

2021 Winner of the Edmond Brun Prize from the French Academy of Sciences

2020/21 Chair of Excellence of the Carlos III University, Madrid

2019: IEPC Best paper award from the Electric Rocket Propulsion Society

2012: Noah Hershkowitz Award of the Institute of Physics (IOP)

2009: IEPC Best paper award from the Electric Rocket Propulsion Society

2008: Bronze medal of the CNRS