

Contact

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Top Skills

Alternative Fuels
Combustion
Energy

Publications

Ethanol as a Diesel Base Fuel:
Managing the Flash Point Issue -
Consequences on Engine Behavior

Rational Formulation of Alternative
Fuels using QSPR Methods:
Application to Jet Fuels

Performances and Durability of DPF
(Diesel Particulate Filter) Tested on
a Fleet of Peugeot 607 Taxis First
and Second Test Phases Results

Evaluation of Diesel Engine Cold-
Start Performance: Definition of
a Grading System To Assess the
Impact of Fuel

Engine and Fuel Related Issues
of Gasoline CAI (Controlled Auto-
Ignition) Combustion

Patents

METHOD FOR CONTINUOUSLY
MONITORING THE PROGRESS OF
OXIDATION OF A FUEL

Method for controlling self-ignition
of an air-fuel mixture, in particular
for a diesel-type internal combustion
engine, and engine using such a
method

Method of removing the fuel
contained in the lubricating oil of an
internal-combustion engine

Nicolas JEULAND

Fellow expert / Prospective manager "Aviation environmental impact
assessment and low carbon fuels" at Safran
France

Summary

Fellow "Future Fuels" Expert for Safran group

Prospective manager "Global aviation environmental prospective
and low carbon fuels" at Safran, in charge of environmental
prospective but also Sustainable ALternative fuels development
(including hydrogen)

Experience

Safran

9 years 8 months

Fellow group expert "Alternative fuels and Environmental footprint"
January 2023 - Present (1 year 4 months)

Paris

Prospective manager "Global aviation environmental prospective and
low carbon fuels" at Safran

May 2019 - Present (5 years)

Paris Area, France

Member of the steering committee of ETIP (European Technology and
Innovation Plateform) Bioenergy, chairman ETIP Bioenergy WG3 (distribution
and end-use)

Co-chair of ACARE WG3 (Environment) and member of ACARE SIB (Strategy
and Implementation Board)

Roadmap leader RM13 (Aviation) within Hydrogen Europe (<https://hydrogeneurope.eu/>)

Member of ICAO CAEP AFTF (Alternative Fuels Task Force)

Senior Expert "Future Fuels"

September 2014 - January 2023 (8 years 5 months)

Safran Tech, Paris-Saclay

Senior expert for Safran Group. Leading the research activity for Safran Group in the field of fuel / alternative fuels formulation and impact.

Member of the steering committee of ETIP (European Technology and Innovation Platform) Bioenergy, chairman ETIP Bioenergy WG3 (distribution and end-use)

Co-chair of ACARE WG3 (Environment) and member of ACARE SIB (Strategy and Implementation Board)

Roadmap leader RM13 (Aviation) within Hydrogen Europe (<https://hydrogeneurope.eu/>)

Member of ICAO CAEP AFTF (Alternative Fuels Task Force)

Coordinator of the Engine ITD Eco-Design part of EU project CleanSky2 (<http://www.cleansky.eu/eco-design>)

Ministère de la Défense

Reserve Officer

February 2017 - Present (7 years 3 months)

Paris, Île-de-France, France

Colonel of the reserve, attached to the Logistician Officers corps and more especially to the French Military Fuel service (SEO - Service de l'énergie opérationnelle)

IFP Training

Teacher

January 2001 - Present (23 years 4 months)

Teaching fuel formulation, biofuels, alternative fuels for road transport and aircrafts

Life Cycle Assessment

Engine / Fuel matching

Gaseous fuels

Pollutant emissions

After-Treatment technologies

IFP School

Teacher

January 2000 - Present (24 years 4 months)

Teaching fuel formulation, biofuels, alternative fuels for road transport and aircrafts

Life Cycle Assessment

Engine / Fuel matching

Gaseous fuels

Pollutant emissions

After-Treatment technologies

IFP Energies nouvelles

4 years 2 months

Fuels / Biofuels expert

February 2014 - August 2014 (7 months)

Rueil Malmaison

Expertise in the field of fuel / biofuel formulation :

- internal (project building and evaluation, scientific animation)
- external (French authorities, participation in several national and international groups (BNPé, CEN, ASTM, ICAO))

Leader of the "Fuel, Lubricants and Emissions" department

July 2010 - August 2014 (4 years 2 months)

Management of a research team dedicated to fuel / biofuels formulation, engine / fuel suitability, alternative fuels, pollutant emissions, in the field of internal combustion engines (road transport), but also aeronautics (Jet fuels, alternative jet fuel formulation)

Participation in national and international standardization groups (BNPé, CEN, ICAO, ASTM)

Responsible of 3 main laboratories :

- Vehicle test laboratory : 3 chassis dynamometers, based on 2 locations (Paris, Lyon).
- Pollutant emissions laboratory : detailed analysis of exhaust gases composition, including particle size measurements
- Lubricant engine test laboratory : endurance test bed for the development and validation of innovative lubricant formulations.

IFP Energies nouvelles

Project leader

January 2002 - January 2008 (6 years 1 month)

Education

École de Guerre

Auditeur civil Promotion 29 · (September 2021 - August 2022)

IFP school

Master of Science (MS), fuels and internal combustion engines · (1998 - 1999)

Ecole nationale supérieure de Chimie de Paris

Engineer's degree, Chemistry · (1995 - 1998)