



The Combustion Institute

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Christine Rousselle

2024 Candidate Profile: The Combustion Institute Board of Directors

Reasons for Nomination

I have been a member of The Combustion Institute for almost 35 years, actively participating by serving as the secretary of the French section of The Combustion Institute, an Associate Editor of the Proceedings of The Combustion Institute, and as a co-organizer of several international and national conferences related to combustion and internal combustion engines.

I have increasingly directed my research endeavors towards combustion utilizing carbon-free fuels. These fuels necessitate novel paradigms in experimental techniques for reactive gaseous flows, revolutionary combustion systems and models. Through diverse projects, seminars, workshops, and conferences, I aspire to aid in persuading our society that combustion-based systems constitute, and will continue to constitute, a vital component of the energy mix, fostering a cleaner and more environmentally conscientious planet.

If elected as a member of the board of directors of The Combustion Institute, I intend to concentrate my efforts on outreach activities aimed at educating the general public, students, research sponsors, industries, and policymakers. I aspire to take on a more proactive role as an ambassador of The Combustion Institute, engaging in shaping our future as experts in a diverse array of interdisciplinary topics in the years ahead.



See the next page for the candidate's curriculum vitae.

CURRICULUM VITAE

CHRISTINE ROUSSELLE

Professor, Université of Orléans, France
Fellow of Combustion Institute 2021

<https://www.univ-orleans.fr/fr/prisme/christine-mounaim-rouselle>

EDUCATION:

1989-1993: PhD in Energetics, Université d'Orléans, CNRS PhD Grant, Paul Laffitte Award, (best PhD for French Section of The Combustion Institute).

2004: HDR, habilitation to supervise PhD students, Univ. Orléans

POSITION HELD:

Since 1994: Position at **Université d'Orléans**

2013-2015: half-delegation to **French National Research Agency (ANR)**– coordinator of Challenge "Mobility and sustainable urban systems"

2016-2017: 1-Year Visiting Researcher at **Sandia National Lab**, Livermore, USA

2023-2025: Research Visitor **Tohoku University**, IFS, Japan

SCIENTIFIC RECORD ; 145 documents in Scopus, H index : 38, (<https://www.scopus.com/authid/detail.uri?authorId=55879351900>),

SCIENTIFIC RESPONSIBILITIES:

2023 -... ASME-ICE Forward Ambassadors

2022-....: Member of Program Committee PEPR-H2/ France 2023, <https://www.pepr-hydrogene.fr/les-projets-du-pepr-h2/>

2015 - ...: Member of Scientific Council of IFP-Energies Nouvelles

2017-2019: Chair and co-chair of IEA 'Clean and Efficient Combustion' Technical collaborative program

2015 - 2023: Delegate for France at IEA Technical Collaborative Program 'Clean and Efficient Combustion'

2012 - 2016: Co-PI of Excellence consortium of laboratories 'labex CAPRYSES' Chemical kinetics and Aerothermodynamics for clean and Safe propulsion and Energetic Systems.

2010 - 2016: Co-funder and manager of Joint laboratory 'Open Lab' with PSA – Peugeot Citroen

SCIENTIFIC AND ORGANIZING COMMITTEE – CONFERENCES AND SCIENTIFIC ASSOCIATIONS

2024: Co-chair Mini-Symposium 'Liquid Ammonia Spray and Combustion', Int. Conf. of Numerical Combustion, Kyoto 2024

2024: Co-chair of Thematic Session 'Zero-emission combustion', ICTAM 2024

2023: Chair of 2nd Symposium on Ammonia Energy

2022 - 2023: Technical Committee of '1st and 2nd Ammonia Combustion Meetings'

2022 - ...: Member of Scientific Committee of Symposium on Ammonia Energy

SERVICE TO THE COMBUSTION INSTITUTE

2018-2030: Associated Editor of Proceedings of The Combustion Institute

2023-2024: Member of Initial Review Committee

2023-2024: Member of Gold medal nomination Committee,

2022: Member of the Silver medal nomination committee,

2022: Member of Distinguished paper nomination committee

2002–2008: Member of Board Committee of French Section of Combustion Institute

2002-2006: Secretary of French Section of Combustion Institute,

1998-....: Session chair at several Combustion Symposia and many other international conferences