



The Combustion Institute

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Jeffrey Bergthorson

2022 Candidate Profile: The Combustion Institute Board of Directors

Reasons for Nomination

Service to the combustion community has always been an important part of my academic career. Days after joining McGill in 2006, I took a leadership role within the Local Host Committee for the 2008 Symposium in Montreal. I have served on the Site Committee of the Combustion Institute (CI) as both Member (2010-2018) and Chair (2018-present). I joined the Board of Directors of the Canadian Section of the CI in 2013 and, since 2016, serve as the Section Administrator. I am a member of the Editorial Boards of Progress in Energy & Combustion Science (since 2011), Combustion & Flame (since 2017), and Applications in Energy & Combustion Science (since 2019). I have also served as a Colloquium Co-Chair for the 36th and 37th Symposia.



I believe that the primary duty of the Board is to uphold the strength of our International Symposium and the Institute's journals. As a member of the CI Board, I will continue to promote combustion research as an important field for the prosperity of humankind, through my efforts to forge international research collaborations on low-carbon combustion concepts, specifically the novel concept of using metal fuels as recyclable zero-carbon energy carriers.

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

JEFFREY M. BERGTHORSON

PROFESSIONAL EXPERIENCE

2019–present	McGill University, Department of Mechanical Engineering	Montreal, QC
Professor & Director, Alternative Fuels Laboratory		
2015–present	McGill University	Montreal, QC
Associate Director, Trottier Institute for Sustainability in Engineering & Design (TISED)		
2012–2019	McGill University, Department of Mechanical Engineering	Montreal, QC
Associate Professor		
2006–2012	McGill University, Department of Mechanical Engineering	Montreal, QC
Assistant Professor		

EDUCATION

2000–2005	California Institute of Technology	Pasadena, CA
Ph.D. in Aeronautics , Subject Minor in Physical Chemistry		
1999–2000	California Institute of Technology	Pasadena, CA
M.Sc. in Aeronautics		
1995–1999	University of Manitoba	Winnipeg, MB
B.Sc. in Mechanical Engineering with Distinction		

SELECTED HONOURS

- The Combustion Institute — Fellow (2019).
- American Society of Mechanical Engineers (ASME) — Fellow (2018).
- R. Panda Faculty Scholar in Sustainable Engineering & Design (2015–2018, 2019–2022).
- McGill University William Dawson Scholar (2014–2019, 2020–2025).
- Distinguished paper award — 35th International Symposium on Combustion (2015).

SELECTED PROFESSIONAL AND LEADERSHIP ACTIVITIES

Editorial Board Membership

- *Progress in Energy and Combustion Science*, Elsevier [5-year impact factor: 20.3] (2011–present)
- *Combustion and Flame*, Elsevier [5-year impact factor: 4.8] (2017–present)
- *Applications in Energy and Combustion Science*, Elsevier [new journal] (2019–present)

Leadership within Scholarly Societies

- The Canadian Section of the Combustion Institute, Board of Directors — Member (2013–present)
- The Institute for the Dynamics of Explosions and Reactive Systems, Board of Directors — Member (2017–present)

Professional Committee Membership

The Combustion Institute:

- International Symposium Site Selection Committee — Chair (2018–present) and Member (2010–2018)
- International Symposium Local Organizing Committee — Member (2006–2008)

The Institute for the Dynamics of Explosions and Reactive Systems:

- Awards Committee — Member (2018–present)
- Technical Program Committee — Member (2018–present)

International Gas Turbine Institute (American Society of Mechanical Engineers):

- Coal, Biomass & Alternative Fuels Technical Committee — Member (2013–present), Vanguard Chair (2017–2018)
- Combustion, Fuels, & Emissions Technical Committee — Member (2016–present)

SUMMARY OF RESEARCH CONTRIBUTIONS

Contribution type	Number of Publications
Book Chapters	2
Published & Accepted Journal Articles	101
Refereed Conference Papers	48
Conference Papers with Refereed Abstracts	86
Total	237