



**The Combustion Institute**

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**Murray Thomson**

*2020 Candidate Profile: The Combustion Institute Board of Directors*

**Reasons for Nomination**

Rapid technological and regulatory change is creating a challenging context for combustion research. I can bring a depth of experience to the Board as it navigates these challenges.

I have been an active member of the Combustion Institute (CI) for over 28 years and am a Fellow of the CI. Among my many contributions to the Combustion Institute, I have served as a colloquium co-chair of the 37<sup>th</sup> and 35<sup>th</sup> International Symposium on Combustion, organized an International Combustion Institute Summer School in Toronto (2016), and been on the Silver Medal (2013), Gold Medal (2020) and Fellows (2018-2022) selection committees. I am on the Editorial Board of *Combustion and Flame*. I have published extensively in Combustion Institute journals including *Combustion and Flames* and *Proceedings of the Combustion Institute*.



My experience in the leadership of scientific organizations will be an asset to the CI Board. I have been on the Board of the Canadian Section of the Combustion Institute for the last 11 years and am currently the vice-chair. I have been part of the leadership team of BioFuelNet National Centre of Excellence, the AUTO21 National Centre of Excellence and the International Sooting Flame (ISF) Workshop.

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

## **CV Murray Thomson**

### Current Position

Professor: Department of Mechanical and Industrial Engineering, University of Toronto  
(cross appointment) Department of Chemical Engineering & Applied Chemistry

### Contact Information

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### Education

- B.Eng. (Hons) Mechanical Engineering, McGill University, 1986
- M.Sc. Mechanical Engineering, University of California, Berkeley, 1991
- Ph.D. Mechanical Engineering, University of California, Berkeley, 1994

### Primary Research Areas

- Development and experimental validation of fundamental and applied models of soot formation
- Understanding and optimization of the combustion of bio-oil (pyrolysis liquid)
- Development and experimental validation of detailed chemical kinetic models of oxygenated hydrocarbons (especially biofuels)

### Awards

- Fellow of the Combustion Institute
- Distinguished Paper, 2016 International Combustion Symposium, Seoul, Korea
- Fellow of the Canadian Academy of Engineers
- Fellow of the Engineering Institute of Canada

### Publications and Patents

- 115 peer reviewed journal publications
- 5 patents
- 136 papers in conference proceedings
- 7 additional patent applications

### Research Supervision Career Totals

- PhD 20
- M.A.Sc. 58
- Postdoc 15
- M. Eng. 20

### Editorial Board

- Combustion and Flame (2015-2020)

### Service to the Combustion Institute

- Fellows of The Combustion Institute Selection Committee (2018-2022)
- Gold Medal Selection Committee (2020)
- International Combustion Symposium
  - member of the Silver Medal Committee (2013)
  - Colloquium co-chair for the 2014 and 2018 International Combustion Symposium
  - Session chair at the 2012, 2014, 2016 and 2018 International Combustion Symposiums
- Canadian Section of the Combustion Institute
  - Member of the Board of Directors (2009 - present)
  - Vice-chair (2015-present); Treasurer (2009-2015)
- International Combustion Institute Summer School
  - Director of Toronto Summer School, 2016