



The Combustion Institute

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William L. Roberts

2022 Candidate Profile: The Combustion Institute Board of Directors

Reasons for Nomination

I have been a continuous member of the Combustion Institute since joining as a graduate student in 1991, first with the Eastern States section for twenty years, and now with the Saudi Arabian section. During this time, I have served as Arrangements Chair, Papers Chair, Vice-Chair, and Chair of the ESS-CI, and Co-Chair of the SA-CI while the section was being established.

At King Abdullah University of Science and

Technology, I have served as the Center Director of the Clean Combustion Research Center, since 2014, now with a population of more than 200 motivated people working across the spectrum of combustion science. The Center is very active in CI activities,

including summer schools and multi-sectional conferences (European, Mediterranean, and Asia-Pacific). The Kingdom hosted the G-20 in 2021 where a Circular Carbon Economy concept was proposed and agreed up. I served as a consultant to the Ministry of Energy during the formulation of the communique, giving me a broad, global view of the energy sector. I have always appreciated the CI as a professional society dedicated to its members. If selected, I would be very pleased to help guide this wonderful organization into a future dominated by hydrogen and renewables.



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

William L. Roberts

Director, Clean Combustion Research Center
King Abdullah University of Science and Technology, Thuwal, KSA

Education:

The University of Michigan, Ann Arbor, MI

Ph.D. (Aerospace Engineering), May 1992

Fields of specialization: Gas Dynamics, Combustion, Non-Intrusive Laser Diagnostics

Positions and Employment

- 2014-pres Director, Clean Combustion Research Center, King Abdullah University of Science and Technology, Thuwal, KSA
- 2012-pres Professor, Mechanical Engineering program, King Abdullah University of Science and Technology, Thuwal, KSA
- 1994-2013 Assistant, Associate, and Professor, Department of Mechanical and Aerospace Engineering, North Carolina State University, Raleigh, NC, USA
- 2001-2012 Director, Applied Energy Research Laboratory, North Carolina State University, Raleigh, NC, USA
- 1992-1994 Research Engineer, Lockheed Engineering and Sciences Co, NASA Langley Program Office, Hampton, VA, USA
- 1987-1989 Aerospace Engineer, Analytical Services (ANSER), Co, Arlington, VA, USA

Honors, Awards and Professional Memberships:

- 2020 Fellow-Combustion Institute
- 2019 Associate Fellow - American Institute of Aeronautics and Astronautics
- 2017 Robert Bilger Distinguished Lecturer, 10th ASPACC Meeting, Sydney Australia.
- 2017 Distinguished Paper Award, 36th International Symposium on Combustion, 'Soot, organics, and ultrafine ash from air- and oxy-fired coal.'
- 2016 The Springer Professorship, Dept. of ME, University of California-Berkeley
- 2013 - 2017 Vice-Chair for the Saudi Arabian Section of the Combustion Institute, 2013-2017
- 2011 - 2013 Chairman for the Eastern States Section of the Combustion Institute (previously held Vice-Chair, Program Chair, Papers Chair, Local Arrangements Chair positions, member of the ESS board continuously from 1996-2013)
- 2002 Inaugural Progress Energy Faculty Fellow, Dept. of Mech. & Aero. Eng.
NSF CAREERS and ARO Young Investigator Award

Peer-Reviewed Publications:

235 journal articles (37 in CNF and 27 Proceedings), 300+ conference papers and presentations.

Student and Postdoc Advising:

25 PhD students defended, 12 current students and 18 Postdocs, with five current