**William H. Green**

Hoyt C. Hottel Professor

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**EDUCATION:**

1988 Ph.D., Physical Chemistry, University of California, Berkeley (advisor: C. Bradley Moore)

1983 B.A. with Highest Honors, Chemistry, Swarthmore College, Pennsylvania

**PROFESSIONAL EXPERIENCE:**

2012-2015 Executive Officer, Department of Chemical Engineering, MIT.

1997-Present Faculty, Department of Chemical Engineering, MIT.

1991-1997 Principal Investigator, Exxon Research & Engineering Corporate Research Laboratory

1991 Postdoctoral Research Associate, University of Pennsylvania (Advisor: Marsha Lester)

1989-1990 The Darwin Research Fellow, Darwin College, Cambridge Univ. (Advisor: Nick Handy)

Summer 1983 Research Chemist, DuPont Experimental Station.

**SELECTED HONORS AND AWARDS**

Fellow of the Combustion Institute (2018)

Fellow of the American Association for the Advancement of Science (2016)

The ACS Glenn Award (three times: 2013 and 2009 and 2004)

*for the best paper on Fuel Chemistry presented at the American Chemical Society national meeting*

C.M. Mohr Outstanding Teaching Award, MIT (2006)

Certificate of Merit, ACS Environmental Chemistry Division (2005)

E.W. Thiele Lectureship Award, Notre Dame Univ. (2004)

NSF CAREER Award (1999)

The Charles & Katherine Darwin Research Fellow, Darwin College, Cambridge University (1989-1990)

NSF Postdoctoral Fellowship in Chemistry (1989-1990)

NSF-NATO Postdoctoral Fellowship in Science & Engineering (1989)

**CONTRIBUTIONS TO THE SCIENTIFIC COMMUNITY**

Editor-in-Chief, *International Journal of Chemical Kinetics* (2008-2013)

Associate Editor, *International Journal of Chemical Kinetics* (2003-2008)

Convenor and Organizer of 7th International Conference on Chemical Kinetics (2011).

Steering Committee, 8th, 9th,10th International Conferences on Chemical Kinetics (2013, 2015, 2017)

Organizer of more than a dozen sessions at AIChE and ACS National Meetings (1999-2013).

Executive Committee, DOE Energy Frontier Research Center on Combustion Science (2009-2015).

Education of scientific leaders: Seventeen of my former PhD students and postdocs now hold tenured

or tenure-track faculty positions; several others are leaders in industrial research.

**RESEARCH**

Leader of 25-member research group focusing on reaction chemistry important for energy, health, & environmental problems. World leader in computer-aided kinetic modeling based on first-principles calculations, including solvent and pressure effects (RMG software); also performs experiments to test the models, invents relevant numerical methods including machine learning, reaction discovery, & CFD. Patents on CO2 Capture Sorbents, Small-Scale Gas-to-Liquids process, & Catalysts; techno-economics. Author of more than 250 journal articles, cited more than 10,000 times (h-index=59).