



## The Combustion Institute

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## 2020 to 2024 Executive Committee Biographies

### Dr. Philippe Dagaut, CNRS-INSIS, ICARE, France

*President, The Combustion Institute*

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Philippe Dagaut is the incoming President of The Combustion Institute. He is also the Research Director, Group Leader at CNRS-INSIS, ICARE and Director of the Excellence Center CAPRYSES. In 1986, Dagaut received his Ph.D. from University Pierre & Marie Curie, Paris. In 2011, he was awarded an ERC-Advanced Grant from the EU to work on biofuels combustion. In 2016, he received the CNRS Silver Medal and the Egerton Gold Medal (Combustion Institute).

Dagaut's research interests include: Chemical kinetics of combustion; oxidation of hydrocarbons, oxygenates, commercial and synthetic fuels; formation of pollutants, e.g., PAH, soot and secondary organic aerosols precursors.

While Dagaut currently supervises Ph.D. and Master students, he is proud of the accomplishments with more than 70 former students and postdoctorals. A prolific scientific writer and editor, Dagaut is the co-author of more than 290 peer-reviewed papers, over 230 communications, and several chapters in scientific books.

Dagaut has been a member of the editorial boards of international journals: The International Journal of Chemical Kinetics, 1996-1998, Progress in Energy and Combustion Science, since 2006, Combustion and Flame, 2008-2010, Recent Patents on Engineering, since 2006, Frontiers in Energy, since 2019.



**Philippe Dagaut**

President, The Combustion Institute

Research Director, Group Leader, CNRS-INSIS,  
ICARE

#### **The Combustion Institute Roles**

Vice President (President-Elect), 2016-2020

Chairman, French Association of  
Combustion (*French Section*), 2007-2010

Member, Board of Directors, 2008-present

Program Co-Chair, 33rd International Symposium  
on Combustion

Editor, Proceedings of the Combustion Institute,  
2008-2011

Editor, Combustion and Flame, 2010-2016

**Prof. Hai Wang, Stanford University, USA**

*Vice President (President-Elect), The Combustion Institute*

Contact: [haiwang@stanford.edu](mailto:haiwang@stanford.edu)

Hai Wang will serve as Vice President (President-Elect) of The Combustion Institute. Wang is a Professor of Mechanical Engineering at Stanford University. He received his Ph.D. from Pennsylvania State University.

Wang's research interests include combustion, direct chemical energy to power conversion, homogeneous chemical kinetics and transport theories. His current research focuses on combustion simulations, and nanocatalysis.

Wang is the author and coauthor of numerous papers in scholarly journals and holds several US patents. He has received a number of honors and awards, including Fellow of the American Society of Mechanical Engineers, the Humboldt Senior Research Award and AIAA Propellants & Combustion Award. In addition to his membership in The Combustion Institute, Wang is an active member of ASME, AIAA, AAAR, and a member on the Standing Committee on Biological and Physical Sciences in Space of The National Academies of Science, Engineering and Medicine.

Wang has been a member of the editorial boards of The Proceedings of The Combustion Institute, International Journal of Chemical Kinetics, Combustion and Flame, and is currently the Co-Editor-in-Chief of Progress in Energy and Combustion Science.



**Hai Wang**  
Vice President (President-Elect), The Combustion Institute

Professor, Mechanical Engineering, Stanford University

**The Combustion Institute Roles**  
Fellow of The Combustion Institute

Member, Board of Directors

Program Co-Chair, 37th International Symposium on Combustion

Associate Editor, Proceedings of the Combustion Institute, 2008-2014

Editorial Board Member, Combustion and Flame, 2003-2008

**Prof. Osamu Fujita, Hokkaido University, Japan**

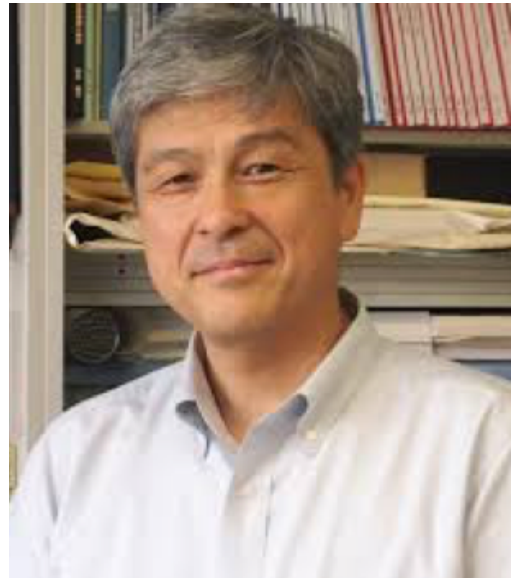
*Vice-President for Sectional Affairs, The Combustion Institute*

Contact: [ofujita@eng.hokudai.ac.jp](mailto:ofujita@eng.hokudai.ac.jp)

Osamu Fujita will serve as Vice President for Sectional Affairs of The Combustion Institute. He is also a professor, Division of Mechanical and Aerospace Engineering Graduate School of Engineering, Hokkaido University, Japan. Fujita completed all of his education at Hokkaido University, receiving his Doctorate in Mechanical Engineering in 1987.

Fujita's work covers a wide area of combustion research, including ignition and flame spreading over solid material, microgravity combustion, fire science, laminar premixed flame, combustion instability, electric and magnetic field effect on combustion, and combustion diagnostics.

Fujita is an active member of The Combustion Society of Japan (CI Japanese Section), served as both President and Board Member. Fujita has contributed as a member of many CI award committees. In addition to his Combustion Institute membership, Fujita is an active member of the Japan Society of Mechanical Engineers (JSME), Japan Association for Fire Science and Engineering, the Society of Automotive Engineers of Japan, the Gas Turbine Society of Japan, the Japan Society of Microgravity Application, and the Japan Society for Aeronautical and Space Society (JSASS). He is the recipient of numerous awards and honors including JSME Fellow, JSASS Fellow, and Hokkaido University President Encouragement Award for Educational Contribution.



**Osamu Fujita**

Vice President for Sectional Affairs, The Combustion Institute  
Professor, Mechanical Engineering, Hokkaido University, Japan

**The Combustion Institute Roles**

Secretary for Sectional Affairs  
Member, Board of Directors  
Fellow of The Combustion Institute  
Member, Fellows Selection Committee  
Member, Gold Medal Selection Committee  
Member, Gold Medal Nomination Committee  
Member, Silver Medal Selection Committee  
Member, Board of Directors Nomination Committee

**Prof. Derek Dunn-Rankin, University of California, Irvine, USA**

*Treasurer, The Combustion Institute*

Contact: [ddunnran@uci.edu](mailto:ddunnran@uci.edu)

Derek Dunn-Rankin is re-elected as Treasurer of The Combustion Institute. He is a professor emeritus at the University of California, Irvine (UCI) and a former department chair. He received his Ph.D. in Mechanical Engineering from the University of California, Berkeley, with an emphasis in combustion science.

Dunn-Rankin was a post-doctoral researcher at Sandia National Laboratories Combustion Research Facility in Livermore until 1987, when he joined the faculty of Mechanical Engineering at UCI. His research is in combustion and energy, droplet and sprays, and applications of laser diagnostic techniques to practical engineering systems, with recent emphasis on electrical aspects of flames, and the direct combustion of methane hydrates.

In 1989 Dunn-Rankin received a National Science Foundation Presidential Young Investigator Award. He has also received the Society of Automotive Engineering Ralph R. Teeter Engineering Educator Award in 1991, a Fulbright Scholar Fellowship in 1997, a Japan Society for the Promotion of Science Fellowship in 2008, and the Oppenheim Prize of the Institute for the Dynamics of Explosions and Reactive Systems in 2013.

Dunn-Rankin is also co-Director for CAMP, the University of California Louis Stokes Alliance for Minority Participation, a program designed to increase minority representation in science and technology.



**Derek Dunn-Rankin**

Treasurer, The Combustion Institute

Professor Emeritus, Mechanical and Aerospace Engineering, University of California, Irvine, USA

**The Combustion Institute Roles**

Treasurer, 2012-present

Member, Board of Directors, Western States Section of The Combustion Institute (WSSCI)

Chair, Executive Committee, WSSCI

Member, Finance Committee

Member, Site Committee

**Prof. Andreas Dreizler, TU Darmstadt, Germany**

*Secretary, The Combustion Institute*

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Dreizler will serve as Secretary of The Combustion Institute. Dreizler is a Professor and Director of Institute Reactive Flows and Diagnostics, Mechanical Engineering at Technical University Darmstadt, Germany, from which he received his Habilitation in Mechanical Engineering in 2002. He received his Ph.D. and Masters degrees from University of Heidelberg, Germany.

Dreizler's interests include new and substantially improved combustion diagnostic methods, comprehensive characterization of turbulent combustion processes with a worldwide user-community of these data, and understanding mechanisms especially in turbulence-chemistry interaction being a key to turbulent combustion.

In recognition of his scientific work, Dreizler has received many accolades, including the Wilhelm Gottfried Leibniz Award and the Adolf-Messer Award. He has been an organizer and contributor to several Combustion Institute Summer Schools as well as other scientific organization conferences. His memberships include the Optical Society of America, and the German Bunsen Society for Physical Chemistry.

As a prolific scientific writer, Dreizler has authored and coauthored more than 200 archival journal publications and has served as a reviewer in more than 15 international journals. He serves as an editor of Flow Turbulence and Combustion and an associate editor of Experiments in Fluids, in addition to his role on The Proceedings of The Combustion Institute.



**Andreas Dreizler**

Secretary, The Combustion Institute

Professor, Mechanical Engineering

**The Combustion Institute Roles**

Member, Board of Directors, 2018-present

Board Member, German Section of The Combustion Institute

Fellow of The Combustion Institute

Editorial Board, Proceedings of the Combustion Institute, 2008-2014

Member, Fellows Selection Committee

Chair, Fellows Selection Committee

Member, Gold Medal Selection Committee

**Prof. Fei Qi, Shanghai Jiao Tong University, China**  
*Secretary for Section Affairs, The Combustion Institute*  
Contact: [fqi@sjtu.edu.cn](mailto:fqi@sjtu.edu.cn)

Fei Qi will serve as Secretary for Sectional Affairs of The Combustion Institute. He is a distinguished professor at Shanghai Jiao Tong University. Qi received his Ph.D. from the University of Science and Technology of China in 1997, and conducted his postdoctoral work at Lawrence Berkeley National Laboratory and Sandia National Laboratories from 1998 to 2003.

Qi has worked as a professor at National Synchrotron Radiation Laboratory, University of Science and Technology of China during 2003-2014. In early 2015, he moved to Shanghai Jiao Tong University. His research interests include the development of synchrotron VUV photoionization mass spectrometry and its applications in combustion and energy research.

A well-respected scientist, Qi has co-authored more than 260 peer-reviewed journal papers. He was elected as a fellow of American Physical Society in 2012, and gave a plenary lecture at the 34th International Symposium on Combustion. He has served as a member of the Board of Directors of the Combustion Institute since 2012 and is the past Chair of China Section of the Combustion Institute. He has also served or currently serves as Editor-in-Chief of *Applications in Energy and Combustion Science*, a member of the Editorial Board of several journals including, *Progress in Energy and Combustion Science*, *Combustion and Flame*, *Proceedings of the Combustion Institute*, and *Review of Scientific Instruments*.



**Fei Qi**

Secretary for Section Affairs, The Combustion Institute  
Distinguished Professor, Shanghai Jiao Tong University, China

**The Combustion Institute Roles**

Chair, China Section of The Combustion Institute  
Program Co-Chair, 38<sup>th</sup> International Symposium on Combustion  
Member, Summer School Committee