Joint International Conference on
The 8th ICMAP & The 9th ISFM

January 17-20, 2020 l On/Off-line Conference

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Dr. Peter J. Bruggeman is currently Professor and Associate Head of Mechanical Engineering at the University of Minnesota. He serves as the Director of the High Temperature and Plasma Laboratory and Associate Director of the Department of Energy Center on Plasma Interactions with Complex Interfaces consisting of 8 institutions. He also leads a Multi-University Research Initiative on “Plasma-driven solution electrochemistry”.

Prof. Bruggeman obtained his PhD from Ghent University, Belgium, in 2008 and was an Assistant Professor of Applied Physics at the Eindhoven University of Technology, the Netherlands, from 2009 until he joined the University of Minnesota in 2013. A significant part of his research is focused on the fundamental physical and chemical processes of low temperature non-equilibrium plasmas enabling many environmental, biomedical and renewable energy applications and technologies.

He has published over 110 papers in peer-reviewed journals and delivered invited and keynote lectures at over 80 international meetings. His research has been recognized by several awards including the 2012 Hershkowitz Early Career Award, the 2013 Institute of Pure and Applied Physics Young Scientist Medal and Prize in Plasma Physics, the 2016 US Department of Energy Early Career Award, the 2018 Peter Mark Memorial Award of the American Vacuum Society and the 2020 George W. Taylor Award for Distinguished Research of the College of Science and Engineering of the University of Minnesota.

Prof. Bruggeman is an active member of his research community. He is currently the section editor for Low Temperature Plasmas of the Journal of Physics D: Applied Physics (Institute of Physics Publishing, UK) and serves as an editorial board member of several other journals. He also served on the committee charged by the National Academies with the Decadal Study of Plasma Science (Plasma 2020) and co-edited the “2017 Plasma Roadmap” giving directions for the future development of the field of low temperature plasma. Prof. Bruggeman is also an elected member of the board of directors of the International Society of Plasma Chemistry. He has been a member of more than a dozen international scientific and organizing committees of meetings in his research field. Prof. Bruggeman was the elected chair of the 2018 Gordon Research Conference on Plasma Processing Science and organized the conference “Frontiers in Low Temperature Plasma Diagnostics X” in 2013 in the Netherlands.