Biography

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Dr. Viet Nguyen is a research aerospace engineer at NASA Glenn Research Center in Cleveland Ohio where he specializes in the development and application of optical diagnostics and remote sensing, novel optical sensors, and low-emissions combustion concepts. Currently, Dr. Nguyen's main research focus is the application of non-intrusive laser diagnostic techniques for quantitative multi-scalar measurements of chemical species and temperature in high pressure turbulent flames in order to validate computational models of combustion for the NASA Fundamental Aeronautics Program. Previously, Dr. Nguyen was involved in the former NASA Aviation Safety Program in which he developed a rugged fiber optic nitrogen/oxygen/fuel sensor probe for aircraft fuel tanks (patent pending). Dr. Nguyen has authored over two dozen publications including a book chapter, and has many patents/patents pending, in a broad range of technology areas ranging from chemical sensing and laser optics, to innovative combustion devices. Recently, Dr. Nguyen received the NASA Exceptional Achievement Medal (2006) for his innovations in optical diagnostics that advance NASA’s technology leadership, and an R&D 100 Award (2007) for his high-speed optical shutter invention. Dr. Nguyen received his PhD in mechanical engineering from UC Berkeley, and his MS and BS in mechanical engineering from UC Irvine. Prior to working at NASA, he was a post-doctoral researcher at the Combustion Research Facility at Sandia National Laboratories in Livermore in California.