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Dr. Patrick Le Clercq is head of the Department Multiphase Flow and Alternative Fuel at the Institute of Combustion Technology of the German Aerospace Center (DLR), Germany. He joined the DLR in 2004 where he started working on CFD and complex fuels (emulsions, alternative aviation fuels ...). Since 2008 his research focuses on investigating and predicting real fuels physical and chemical properties and their impact on performance and emissions of combustion systems. He is active in the ACARE Work Group 3 on Energy and Environment. Before joining the DLR, Dr. Le Clercq was a Caltech Postdoctoral Fellow. He received his Ph.D. in Mechanical Engineering from SUPAERO (now ISAE), Toulouse France in 2000 and his Maîtrise (~Masters) in Mechanical Engineering from l'Université Pierre et Marie Curie, Paris VI, France, in 1995.