

About the Presenter:



Dr. Jan VERSTRAETE is a Senior Researcher at IFP Energies nouvelles (IFPEN). He holds an M.S. degree in Chemical Engineering (1990) from the University of Ghent (Belgium) and a Ph.D. (1997) from the same university, where he developed fundamental kinetic models for catalytic reforming under the supervision of Prof. dr. Gilbert Froment.

He joined the IFPEN-Lyon research center in 1994, where he first worked on the modeling of various refining processes, including catalytic reforming, gas oil hydrotreating and Fluid Catalytic Cracking. In 1996, he joined the FCC project and was appointed FCC R&D program manager in 1999, a position where he directed the FCC research team and was in charge of coordinating IFPEN's fluid catalytic cracking research with TOTAL and Technip - Stone & Webster. He has been the recipient of the AFTP 2006 Award (award given by the French Petroleum Refiners Association for the development of the FCC Riser Separator system (RS2)). From 2004 onwards, he has been R&D program manager for Ebullated-Bed Hydroconversion/Hydrocracking and has been also involved in applied research on solvent deasphalting, direct hydrotreating of crude oils and fixed-bed residue hydroprocessing. One of the main concerns in this research therefore pertained to studying the effects of the concentration and nature of asphaltenes on the unit performances, as well as developing means to reduce their negative effects. Concurrently, he has continued modeling work on various refining processes (residue hydrotreating, VGO hydrocracking, and VR hydroconversion). He has been an active member of the Eurokin Consortium that aims at implementing best practices in the area of chemical reaction kinetics. On the more fundamental side, he has also been deeply involved in basic research, and particularly on feed composition modeling and reaction modeling, through the supervision of 13 Ph.D. theses and several post-doctoral students, while leading a basic research project on Multi-Scale Modeling. Jan VERSTRAETE is the author and co-author of 40 scientific publications (h-index: 13), 2 book chapters and 14 patents.

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