



Dr. Imad Khalek **Southwest Research Institute (SwRI)**



Dr. Imad Khalek is an Institute Engineer at Southwest Research Institute (SwRI), Powertrain Engineering Division. He has been with SwRI for 25 years and manages SwRI Particle Science & Technology activities. He has investigated and managed numerous R&D programs related to emissions from automotive engines with and without aftertreatment devices using various fuels and oils. He led notable particle measurement programs to improve particle emissions measurement and testing related to partial flow sampling systems for transient operation, sampling techniques, filter media, filter collection, PM-PEMS and solid particle number. He is the founder of SwRI Particle Laboratory that became the world first ISO 17025 particle calibration laboratory accredited by A2LA for four distinct particle number and size calibration processes. He is also the founder of SwRI Particle Sensor Performance and Durability (PSPD) Consortium that was launched in 2011. Additional focus includes brake, tire, and battery fire emissions and mitigations. Dr. Khalek holds 9 patents and has over 60 publications with numerous presentations in the public domain. He is an Associate Editor of the Society of Automotive Engineers (SAE) Journal of Engines. Dr. Khalek is Fellow of the SAE.

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