

Dr. M. SAM MANNAN, PE, CSP, DHC

Regents Professor and Director

Holder of T. Michael O'Connor Chair I

Mary Kay O'Connor Process Safety Center

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Dr. M. Sam Mannan is Regents Professor in the Chemical Engineering Department at Texas A&M University and Director of the Mary Kay O'Connor Process Safety Center at the Texas Engineering Experiment Station. His experience is wide ranging, covering process design of chemical plants and refineries, computer simulation of engineering problems, mathematical modeling, process safety, risk assessment, inherently safer design, critical infrastructure vulnerability assessment, aerosol modeling, and reactive and energetic materials assessments.

Dr. Mannan is involved very closely with projects that include hazard assessment and risk analysis, process hazard identification, HAZOP (hazard and operability) studies, vulnerability assessment, process safety management, and risk management. His research interests include development of inherently safer processes, application of computational fluid dynamics to study the explosive characteristics of flammable gases, development of quantitative methods to determine incompatibility among various chemicals, application of calorimetric methods for the assessment of reactive hazards, and the application of consequence analyses to assess the impact of process plant incidents. He co-authored the ***Guidelines for Safe Process Operations and Maintenance*** published by the Center for Chemical Process Safety, American Institute of Chemical Engineers. He is the editor of the 3rd and 4th edition of the 3-volume authoritative reference for process safety and loss prevention, ***Lees' Loss Prevention in the Process Industries***. Dr. Mannan has published 205 peer-reviewed journal publications, 4 books, 7 book chapters, 200 proceedings papers, 14 major reports, and 216 technical meeting presentations.

For extended bio, see:

<http://psc.tamu.edu/about-the-center/meet-the-director>