

PROFESSIONAL ACTIVITIES OF:

ROY E. SANDERS

Chemical Process Safety Consultant

General

Roy E. Sanders, Chemical Engineer - retired in March 2008, as a Compliance Team Leader for the Chlor/Alkali Production facilities from PPG Industries, Lake Charles, Louisiana. He has specialized in Process Safety since 1974, and was Superintendent of Loss Prevention at PPG from 1982 to 1998. After graduating from Louisiana State University, in 1965, with a BS in Chemical Engineering, he held various operations and technical positions at PPG involving chlor/alkali and chlorinated hydrocarbons.

He has been the principal author of many practical articles published on chemical process safety that offer a within-the-fence look at that activity from an operations, maintenance and engineering standpoint. The third edition of his book, **Chemical Process Safety: Learning from Case Histories** was released in 2005, after the two previous editions sold very well.

Mr. Sanders has served as Chairman of PPG Lake Charles' Emergency Response Planning Committee, and Chairman of the Technical Safety Review Board. He was responsible for process hazards analyses and has investigated numerous process accidents. Roy recently gained an excellent insight to day-to-day chemical processing operations when he served as an outside chemical process operator during a 3 ½ month labor dispute in the summer of 2006.

Roy Sanders is the father of three adult daughters and the proud grandfather of three smart young girls. Roy's hobbies include gardening, traveling, photography and alligator hunting.

Roy may be reached via e-mail at: Sanders.Roy@Suddenlink.net

Lecturer / Instructional Activities

Mr. Sanders is a regular lecturer on Process Safety topics throughout North America and taught short courses in Saudi Arabia, Bahrain and India. His interactive process safety awareness course entitled "What Went Wrong?" has received excellent reviews round the world. He is a frequent contributor of papers to the AIChE Loss Prevention Symposia and the Mary Kay O'Connor Process Safety Symposia. In 1996 and 1997, he taught a graduate level engineering course entitled Chemical Process Safety at McNeese State University. Roy serves on the editorial board of the AIChE's *Process Safety Progress* and on the editorial board of Puttman's *Chemical Processing* magazine. Roy is also a founding member and contributor to the AIChE's *Beacon* publication. He assists the Lake Area Industries - McNeese Engineering Partnership presenting OSHA Process Safety Programs to local industry. He has served on the National AIChE's Loss Prevention Symposium Committee since 1979.

Roy has participated as an instructor on a recurring basis for a two-day course sponsored by the AIChE's Continuing Education Dept. The course, ***Chemical Plant Accidents: A Workshop of Causes and Prevention***, was offered between 1984 and 1992. In 1993, Roy drafted a script and produced a 12-minute video entitled ***Failures in Management of Changes***. He is a Registered Professional Chemical Engineer and Environmental

Engineer in Louisiana. Roy was nominated as a "Fellow" within the AIChE, and elected as a Director of the Safety & Health Division of the AIChE for 1997-1999

Publications

- ◇ *Tanks A Lot: A Look at the Frail Nature of Tanks* Proceedings of the Mary Kay O'Connor Process Safety Center – Making Safety Second Nature Symposium – October 2008
- ◇ *Hurricane Rita: An Unwelcome Visitor to PPG Industries in Lake Charles, Louisiana*, Mary Kay O'Connor Process Safety Center– Journal of Hazardous Materials, 2007
- ◇ *Deflated – Victims of Vacuum*, Journal of Hazardous Materials, 2006.
- ◇ **Chemical Process Safety: Learning from Case Histories**, 3rd Ed., Elsevier, Butterworth-Heinemann, Boston, 2005.
- ◇ *Practicing Chemical Process Safety: A Look at the Layers of Protection*, Journal of Hazardous Materials, July 2004.
- ◇ *Designs that Lacked Inherent Safety: Case Histories*, Journal of Hazardous Materials, 2003.
- ◇ *Picture This! Incidents that Could Happen in Your Plant*, Process Safety Progress, AIChE, June 2002.
- ◇ **Chemical Process Safety: Learning from Case Histories**, - a 342 page book - Butterworth Heinemann, Ltd., in Boston, 1999
- ◇ *Chemical Process Safety: Learning from Case Histories*, - a technical paper - , Mary Kay O'Connor Process Safety Center – Making Safety Second Nature – 1999 Symposium Proceedings, Oct 1999.
- ◇ *A View of What We Do – Making Process Safety Second Nature.* , Mary Kay O'Connor Process Safety Center Symposium published on website March 1998.
- ◇ *Monday Morning Quarterbacking: Applying PSM Methods to Case Histories of Yesteryear*, co-authored with Wayne L. Spier, Process Safety Progress, **(PSP)** AIChE, Winter 1996
- ◇ *Human Factors: Case Histories of Improperly Managed Changes in Chemical Plants (PSP)* Fall 1996.
- ◇ **Management of Change in Chemical Plants: Learning from Case Histories**, Butterworth Heinemann, Ltd., in Oxford, UK, 1993
- ◇ *Victims of Vacuum*, Chemical Engineering Progress, **CEP**, AIChE, Sept. 1993
- ◇ *Small, Quick Changes Can Create Bad Memories*, **CEP**, May 1992
- ◇ *Don't Leave Plant Safety to Chance*, with J. H. Wood, Chemical Engineering magazine, Feb. 1991
- ◇ *Stop Tank Abuse*, co-authored with D. L. Haines & J. H. Wood, Plant/Operations Progress, Jan 1990
- ◇ *Dynamic Testing and Maintenance of Safety Relief Valves*, co-authored with W. H. Woolfolk, Chemical Engineering magazine, Oct. 1987
- ◇ *Process Safety Valve Testing*, co-authored w/ W.H. Woolfolk published in **CEP**, Nov. 1984
- ◇ *Plant Modifications-Troubles and Treatment*, published in Chemical Engineering Progress,**CEP**, Feb. 1983