



**MARY KAY O'CONNOR
PROCESS SAFETY CENTER**
TEXAS A&M ENGINEERING EXPERIMENT STATION

21st Annual International Symposium
October 23-25, 2018 | College Station, Texas

**Deficiencies Frequently Encountered in the Promotion of Process Safety
Information**

Horng-Jang Liaw

Department of Safety, Health, and Environmental Engineering

National Kaohsiung University of Science and Technology

1 University Road, Yanchao District, Kaohsiung, Taiwan

Email: hjliaw@nkfust.edu.tw

Abstract

Process Safety Information (PSI) is one of the fourteen elements of Process Safety Management (PSM). The findings of the PSI element in the PSM audit for more than 50 plants in Taiwan were reported in this manuscript, and such findings were not limited to the requirements of OSHA. The information pertaining to the hazards of the highly hazardous chemicals in process should not be limited to the Safety Data Sheet (SDS), although the information provided by the SDS satisfied the requirements of OSHA. The necessary information for the hazards of the highly hazardous process chemicals should consider the characteristics of the process. The unexpected process chemistry is more important than the expected one for the information pertaining to the technology of the process, from the safety viewpoint. The frequently encountered problem for the information pertaining to the equipment in the process is the inconsistency between the piping and instrument diagram and the real process.

Keywords: Process safety information; Process safety management; Safety data sheet