

International Conference on Oil, Gas and Petrochemistry

April 3-5, 2017 Dubai, UAE

Concept of system safety for petrochemical industries

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Despite the progressive developments in industrial control and detections systems, researches of standards, risk management techniques, usage of accident databases, diffusion of new innovations such as virtual reality applications, the safety level of the companies is still insufficient and major accidents are still happening. To improve the safety level of the companies the experiences, know ledges such as the application of technology, compliance with the design standards, the safety management system should be reviewed and false facts should be revealed. Through these conditions development of a new system is necessary to improve safety level of companies totally. In this study, the main factors such as misunderstandings of the standards, innovation and software capabilities, compliance with international legal regulations, management systems which are effecting of safety level is discussed with the inspection results of last accidents, recent applications and know ledges. Consequently, special proposals are prepared for the Petrochemical Industries in the concept of 'system safety'.

Biography:

Huseyin Baran Akinbingol is presently working at Board of Labour Inspection at Ministry of Labour and Social Security (Turkey) from the year 2010, as a senior labour inspector especially in the fields of inspection of chemical industries and safety reports, according to process safety, control of major accidents (COMAH/Seveso) directive, and other legislations. He graduates from Gazi University, with bachelor degrees chemical engineering (2004) and business administration (2013). Worked before at Crude Oil Pipeline Construction project (2004), Plant Construction (2006-2008) and Bureau Veritas (2008-2010) as an industrial inspector with the capabilities of safety (Occupational Safety Expert), welding engineering (International Institute of Welding) and painting (Training within Industry & British Gas), non destructive inspection (Middle East Technical University).

He got masters degree in the fields of energy and catalyst at the Department of Advanced Technologies (2011) and presently he is also researcher at Gazi University as a doctoral thesis subject in the fields of petrochemical industry for risk based inspection (RBI) and methodology API 580/581 since 2013.