

Management of Instrumented Protective Systems

By: Mr. John Thomasee
Chevron Phillips Chemical Company

A talk on "Management of Instrumented Protective Systems" was organized by SLP on March 15, 2011 for members to learn more about the independent protective layers management practices and its implementation.

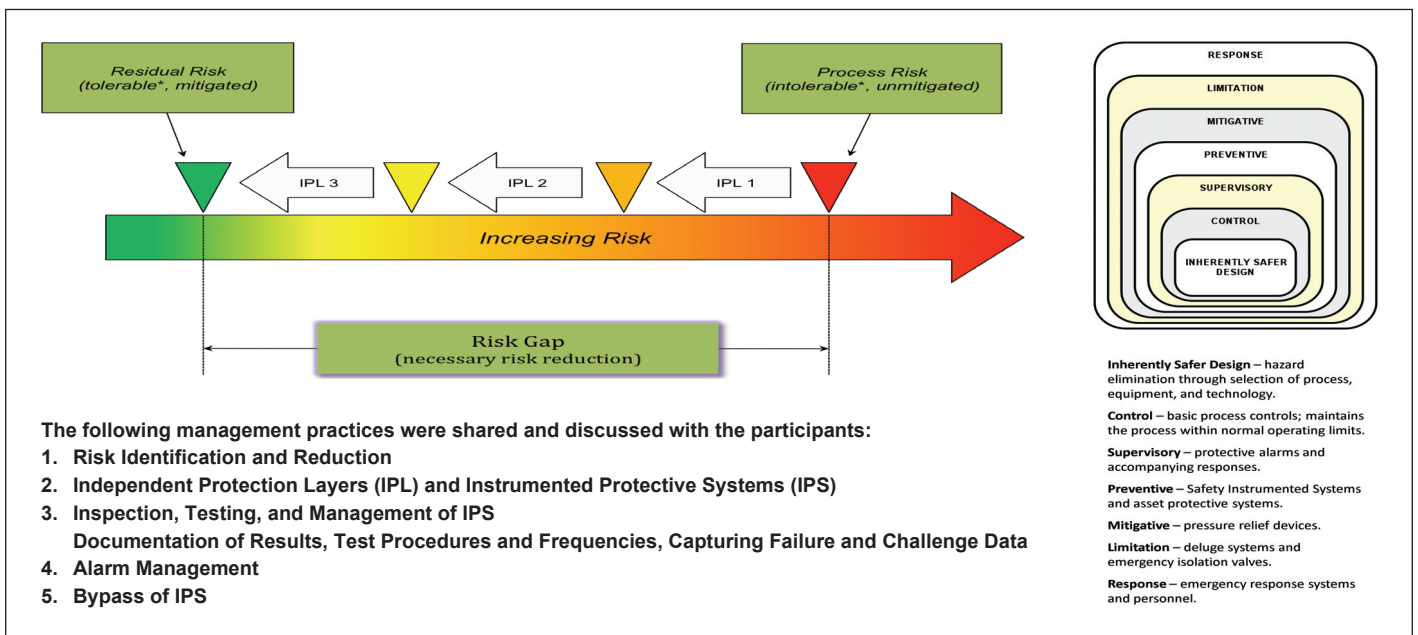
The speaker was Mr. John Thomasee, Corporate Safety Instrumented Systems and Automation Manager for Chevron Phillips Chemical Company based in Houston, Texas.

Some 30 SLP members and guests attended the talk cum dinner held at the Singapore Polytechnic Graduates Guild (SPGG).

In his introduction, Mr. Thomasee pointed out that during a Process Hazard Analysis (PHA) and Layers of Protection Analysis (LOPA), instrumented functions are allocated risk reduction credit, reducing intolerable risk down to tolerable risk. These instruments, logic solvers, and alarms must be identified and properly managed so that the functions will be available to help mitigate the hazard identified in the PHA.



Mr. John Thomasee giving talk on Management of Instrumented Protective Systems.



He emphasized that to help realize the required risk reduction, a written, effective IPS management work process must be in place and program elements should include:

- Roles and responsibilities - Includes a "Champion" - a single point of contact
- How IPS will be identified on process safety information
- Inspection, testing, and preventive maintenance frequencies and procedures
- IPS narratives
- Required documentation and records
- Bypass management
- Training

A lively discussion took place after the presentation and into the dinner. Clearly, most of the participants had benefited from the talk. Mr. Tay presented a token of appreciation to Mr. Thomasee for his time and efforts in sharing the knowledge with the participants.