



Opening Comments

2014 Global Safety Team- Safety Workshop

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Welcome

- **World Chlorine Council(WCC)**
“To be a global forum to promote health, safety, and environmental best practices in order to provide society with the benefits of the chlor-alkali industry.”
- **Vision and Mission of the WCC Global Safety Team**
The global chlor-alkali community strives to operate with zero releases, incidents and injuries.
- **Mission**
The Mission of the WCC Global Safety Team (GST) is to promote the safe production, distribution, handling, and use of chlorine among the member organizations of the WCC. The GST accomplishes its mission by working with WCC member associations to share best practices and safety related incidents throughout the global industry.

GST Members

WCC Global Safety Team Associations:

- Alkali Manufacturers Association of India
- China Chlor-Alkali Industry Association
- Chlorine Chemistry Division/American Chemistry Council
- Chlorine Institute
- Clorosur
- Euro Chlor
- Japan Soda Industry Association
- RusChlor

Focus of GST

- Process safety practices in our global chlor-alkali manufacturing operations;
- Ensuring the safety of employees, the environment and physical plant assets in the event of an unexpected process excursion cannot be overstated.
- The development of new techniques and technologies designed to improve operational safety has evolved to meet these challenges.
- “Safety really is nothing more than a byproduct of doing right things right.”

GST Activities and Tools

Newsletters

- Quarterly Newsletters distributed to all member associations for further distribution
- Topics of newsletters include the discussion of:
 - Process safety activities throughout the different regions and associations
 - A review of the 10 Cardinal Rules of Process Safety
 - Sharing of “Lessons Learned “ incidents including releases, abandoned cylinder handling or transportation incidents

Newsletter

Topics (cont'd)

- Hazards of Chlorine-Iron fires
- NCl₃ hazards and how to avoid them
- The Cardinal Rules of Process Safety
- Equipment corrosion and chlorine
- Scrap metal yards and chlorine cylinders
- Chlorine scrubbing systems
- Emergency response
- Training activities

Technical Documents

Over the years the GST has developed numerous guidance documents to assist the industry with internationally agreed upon recommended practices. These include:

- Always- Never Poster
- Chlorine Safety Scrubbing Systems
- Safe Filling, Handling and Maintenance of Chlorine Containers Guidance
- Escape Respirator Guidance
- Procedures for loading and off-loading liquid chlorine containers
- Transportation Position Document

Safety Workshops

- Sometimes in conjunction with WCC events – 2012 Moscow workshop and 2013 Dubai Workshop
- Sometimes independently of WCC meetings – 2013 Workshop in India, 2014 Workshop in Brazil.
- Always looking to share best practices and learn from others.

Incident Reporting

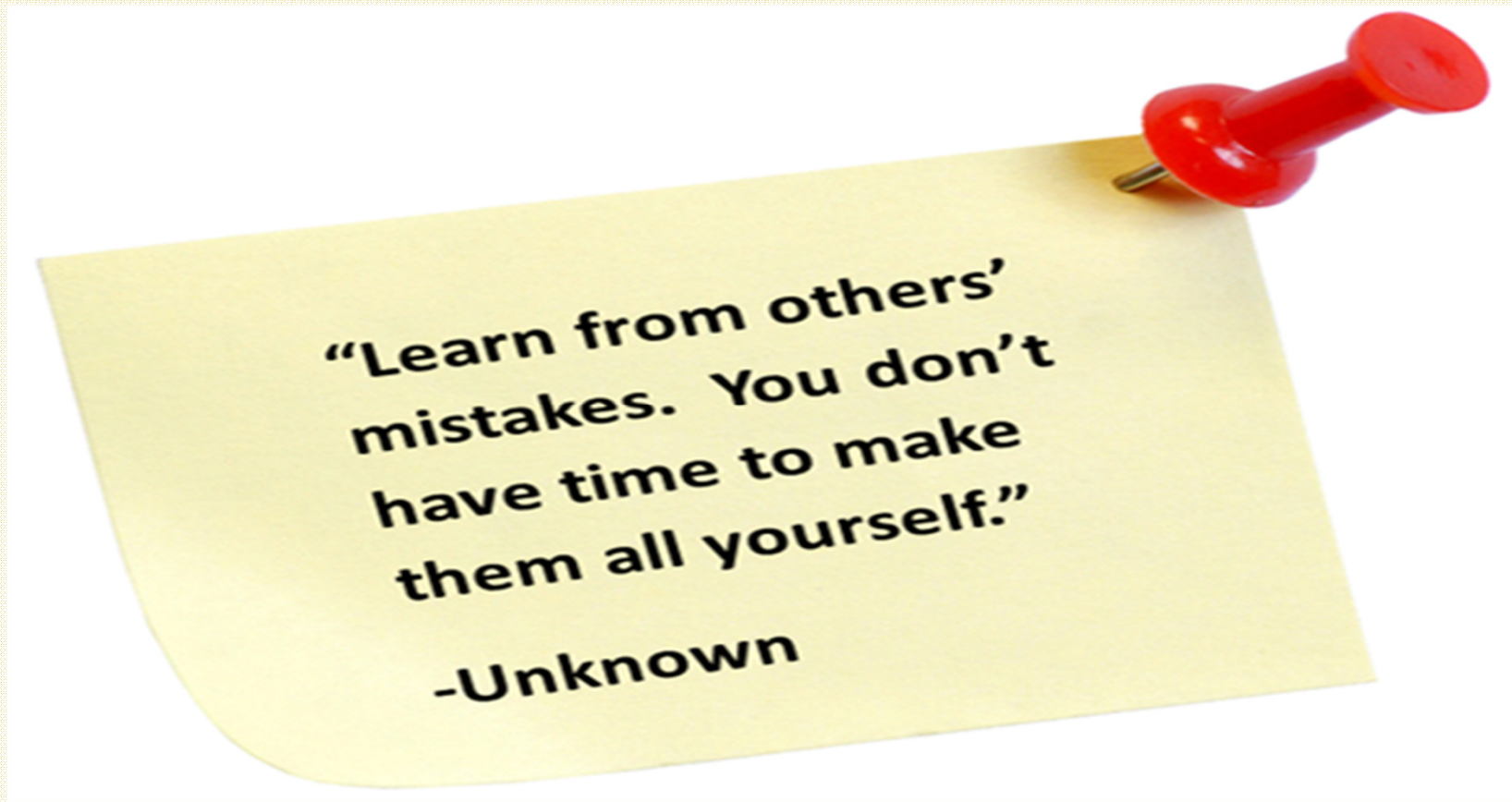
Global Safety Team (GST) Incident Tracking Program

- The GST seeks to learn about chlorine incidents and report about them in this newsletter so we can all learn from these experiences and minimize the risk of such incidents being repeated.
- The GST believes that the reporting of such incidents can also improve the technical recommendations published by WCC member associations.

Incident Reporting

- However- incident reporting has basically stopped since 2004
- Not really sure why – when in doubt blame the lawyers
- Along with process safety the goal of the GST over the next few years will be to improve incident reporting
- Simplify format and provide a clear definition of what should be reported
- Get commitment from GST associations to provide information

Incident Reporting



Summary

- During this workshop we will continue with the process safety theme established earlier this year.
- We believe we have a strong program with excellent topics presented by our chlor-alkali industry colleagues
- Thank you for your attendance