

**Greater Houston Area Chapter
Society of Reliability Engineers**



Friday, January 20, 2017

11:30 am-1:00 pm

Perry's Steakhouse & Grille

700 Baybrook Mall Dr H 110, Friendswood, TX 77546

(281) 286-8800

Agenda

11:30 – 11:35 Sign-in and pay dues for 2017 (5-year memberships are available for only \$50 or \$10 for one year!)

Reed Watson, SRE Treasurer

11:35 – 11:50 Convene and Order Lunch

11:50 – 11:55 Welcome and Guest Recognition (*Acknowledge first time visitors*)

Troy Schwartz, SRE President

11:55 – 12:00 Introduction of Guest Speaker Biography/Credentials

Samandar Roshan-Zamir, SRE Vice President

12:00 – 12:30 SRE Presentation Topic

Reliability Centered Maintenance: Applying an Aviation Philosophy to Oil & Gas

Ms. Rachel Stanford, Schlumberger

12:30 – 1:00 Question & Answer

1:00 Meeting Adjourned

Guest Speaker Biography

Ms. Rachel Stanford, Schlumberger

Rachel Stanford has been working in the Oil & Gas Industry with Schlumberger Oilfield Services for the last 8 years, since graduating in 2008 with a Masters in Electronics Engineering from Queen's University Belfast, UK. She spent 1.5 years based out of Malaysia working as a Field Engineer in the South China Sea, during which time she provided measurements and logging while drilling services to clients such as Petronas and ExxonMobil. She then moved to England as an Electrical Engineer to design and qualify circuitry for downhole measurement tools. 3.5 years ago, Rachel transferred to Schlumberger's Katy, Texas office in her first reliability role, with the goal of improving service quality and reducing cost of service delivery for her product lines. She now manages the Sustaining team, which is responsible for supporting the field on technical issues related to 10+ commercial drilling product lines. In her spare time, Rachel enjoys volunteering at STEM events aimed at getting young people interested in pursuing careers in Engineering.

LinkedIn: <https://www.linkedin.com/in/rachelstanfordNI>



Abstract

What do the Aviation industry and the Oil & Gas industry have in common? In the event of a failure, the consequences can be catastrophic. Hence, it is absolutely imperative that companies are doing all they can to ensure the reliability of their products meet an expected standard. Reliability Centered Maintenance is a concept developed by Nowlan and Heap of United Airlines in the 1970's which had a dramatic effect on reducing the fatality rates during flights (from 60 per million take-offs in 1958 to 1 in 30 million take-offs in 1998). The concept also led to a step-change reduction in the number of maintenance hours spent servicing aircraft. Perhaps contrary to intuition, it was proven that by reducing the human touch-time during maintenance, the reliability of an asset increases, creating a win-win situation for companies in terms of reducing labor costs whilst simultaneously improving reliability. This presentation describes a real case study from Schlumberger's Drilling segment, demonstrating that RCM can be applied across many industries.

SRE Mission Statement

The SRE is an organization that promotes reliability engineering through a community of professionals involved or interested in the application of reliability in all areas of the discipline. SRE has chapters in many US locations as well as internationally.

SRE Purpose Statement

The SRE Greater Houston Area Chapter was established to provide a forum for education, networking, and professional development in the reliability discipline. Our current focus is in the NASA community, but will extend to other industries as the chapter continues to grow throughout the Greater Houston Area.

Notes:

For more information about the SRE Greater Houston Area Chapter:

<http://www.srehouston.org>

<http://www.linkedin.com/groups?gid=3480702>