



**Society of Petroleum Engineers  
Indonesia - Java Section  
Technical Discussion Group (TDG)  
(Free to all members/ participants)**

**Thursday, 13 August 2015  
11.30 AM -14.00 PM**

**Energi Mega Persada Offices  
Bakrie Tower 25<sup>th</sup> Floor, Rasuna Epicentrum  
Jl. HR. Rasuna Said, South Jakarta, Indonesia**

**Trey Shaffer  
“SPE Health, Safety, Security, Environment &  
Social Responsibility (HSSE-SR) Technical Director  
Senior Partner, Environmental Resources Management”**

***Adapting to The Challenge of Climate Change Risk***

Climate change is clearly a high profile issue which is presenting many challenges and opportunities for industry. Many solutions are being explored including carbon capture and storage, energy efficiency and the development of low CO<sub>2</sub> sources. Of the many options, two key areas for investment have emerged:

- 1) investment in energy technology research and development; and
- 2) adaptation.

Although we are far from achieving consensus on the path forward, many companies are beginning to pay attention to adaptation and to integrate adaptation strategies into their business processes. Adaptation is action to take advantage of the positive effects of climate change while preventing or minimizing the negative effects.

This presentation will make the case that adaptation is a prudent business strategy and will illustrate several examples where integrating adaptation into the business strategy has delivered value.



**SPE HSSE-SR Technical Director**

**Trey Shaffer**  
Senior Partner  
Environmental Resources Management

Trey Shaffer a Senior Partner with ERM based in Houston, Texas, USA. He is ERM's Global Upstream Oil & Gas Sector Leader. He helps clients with a broad range of sustainability, environmental and safety challenges. Prior to joining ERM in 2003, Trey was the Director of Downstream Services for Boots & Coots International Well Control.

In 2014, Trey was elected to the SPE International Board of Directors as the HSSE-SR Technical Director. In 2010, he was recognized by the SPE Gulf Coast Section and received the Award for Distinguished Contribution to Petroleum Engineering in the area of HSSE-SR. He is the co-chair of the SPE International 2016 HSSE-SR Conference in Stavanger, Norway and supports numerous SPE activities globally.

He earned a Bachelor of Environmental Design degree from Texas A&M University in College Station, Texas in 1987. He lives in Texas with his wife and three daughters.

*For information and reservation, email Mega at: [speindonesia@slb.com](mailto:speindonesia@slb.com)*