



**SABIC Technology & Innovation**  
**SABIC Technology Center - Jubail**



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**High temperature corrosion and protection for industrial applications**

More and more there is a need for increasing efficiency and, thus, temperature of thermal processes and for the exploitation of feedstock that contains corrosive components. The first aspect may result in an acceleration of the existing corrosion process or in an unwanted change of the corrosion mechanisms while the second may lead to a more or less complete loss of the corrosion resistance of a metallic component. With regards to the latter, species containing significant amounts of halogens (e.g. chlorine), sulphur or vanadium can be mentioned. A special case is metal dusting where extremely high carbon activities lead to disintegration of the materials. Even water vapour at high temperatures may result in accelerated oxidation.

The purpose of the talk is to introduce the different types of corrosion and their mechanisms and then to discuss strategies to overcome high temperature corrosion problems. A major aim of the presentation is also to provide a basis for an open discussion of aspects that are brought in by the audience after the talk.

**When: 09:00-15:00 Monday, December 12<sup>th</sup>, 2011**

**Where: Karan Hotel - AL FARGAD Conference Hall  
Jubail Industrial City**

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