

	<p align="center"><b>CM-I-12: Modeling – Internal Corrosion (1-Day Tutorial)</b></p>	<p>Email: <a href="mailto:training@corrsmagnet.com">training@corrsmagnet.com</a>  Phone: 403-991-4036  Linked in: CorrMagnet  Facebook: Corrmagnet  Twitter: @corrsmagnet  Skype: CorrMagnet</p>
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This tutorial presents models to predict hydrogen effects on carbon steels and corrosion-resistance alloys (CRAs), and to predict general corrosion, localized pitting corrosion, erosion corrosion, microbiologically influenced corrosion (MIC), topof- the line corrosion (TLC), and high-temperature corrosion of carbon steels.

#### **Ideal Participants**

- Oil and gas personnel tasked to develop and/or to evaluate internal corrosion control program

Maximum number of participants: 25

#### **Materials**

- “Corrosion Control in the Oil and Gas Industry” S. Papavinasam, Publisher: Gulf Professional Publishing (Imprint of Elsevier) ISBN: 978-0123-970-220, Oct. 15, 2013: Chapter 6 (This book will be available as reference material for the duration of the tutorial and may be bought at a reduced price by the participants).
- Handouts of the presentation

#### **Tutorial Organisation**

- The tutorial is typically offered over one full day in four sessions
- Each session is for 90 minutes duration

#### **Tutorial Contents**

- Introduction
- Modelling Hydrogen effects
- General corrosion models
- Pitting corrosion models
  - o Classical – Corrosion resistant alloys
  - o Non-classical – Carbon steel
- Erosion-corrosion models
- Microbiologically influenced corrosion models
- Modelling formation of Scales
- Top-of-the-line corrosion models
- High-temperature corrosion models

#### **Tutorial Outcome**

The participants will acquire knowledge of various models to predict different types of internal corrosion and will be able to select appropriate model(s) for their task

#### **Tutorial Fee**

Contact: [training@corrsmagnet.com](mailto:training@corrsmagnet.com) or see events

#### **Tutorial Schedule**

Contact: [training@corrsmagnet.com](mailto:training@corrsmagnet.com) or see events