

MATERIALS SCIENCE TRAINING

When:

2 Oct 2017 (Mon)
or 3 Oct 2017 (Tue)
8:30am - 5:00pm

Where:

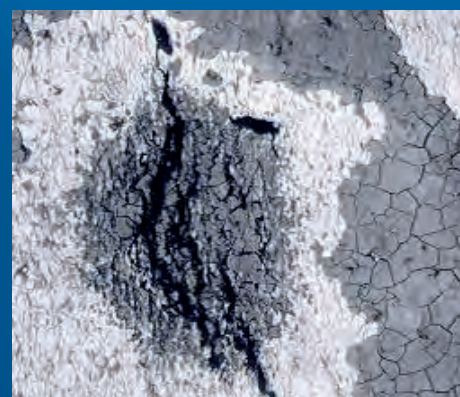
Swagelok Nederland
Waddinxveen

ORGANIZED BY SWAGELOK NEDERLAND

When you need to equip engineers and technical specialists with the right knowledge to select optimal materials of construction for demanding applications, choose Swagelok for your training. This class provides a basic knowledge of principles of material science, along with information on corrosion and other factors affecting material properties.

Key Learning Objectives:

- Understand critical concepts surrounding the basic nature and behavior of materials, such as:
 - A simple atom-level view of metals
 - Microstructural characteristics of materials
 - Ferritic, austenitic, and duplex alloys
 - Mechanical properties of materials
- Explain different types of corrosion and how specific alloys resist corrosion
- Discuss sour gas corrosion, NACE standards, and component selection for compliance with NACE standards
- Select appropriate materials of construction for various applications, considering factors such as pressure ratings, temperature ratings, corrosive threats, and compliance with standards and specifications
- Explain various alloy options, along with their advantages and disadvantages
- Open discussion about the topics in this training



About the Instructor

Gerhard Schiroky joined Swagelok in 2000 and is responsible for helping customers find solutions to meet their materials requirements and identifying opportunities for providing value-added solutions. He has investigated the role of alloy constituents on corrosion of welded high purity stainless steels. Gerhard worked closely with Sandia National Laboratories and leading R&D organizations in Japan to help customers with the selection of alloys for high pressure gaseous hydrogen applications.

More recently, Gerhard evaluated the corrosion of fluid system components in offshore installations, working with customers, field engineers, and distributor personnel on the analysis of corroded products and providing guidance on how to improve the quality and reliability of these installations.



Gerhard Schiroky

Gerhard has an in-depth knowledge of materials-related industry standards and standard specifications. He routinely provides customers with a better understanding of the NACE MR0175/ ISO 15156 international standard for the selection of materials for sour gas applications. He has developed roadmaps for improved and new alloys, from which future fluid system components have been constructed.

He identifies and evaluates novel materials that offer performance or cost advantages. Gerhard has published many articles on 316L stainless steel, corrosion and the effects of alloy composition.

His work has been featured in Semiconductor International, World Oil and Offshore magazines.

He received his doctorate in Materials Science and Engineering from the University of Utah.

An author of numerous technical publications on diverse topics, including fluid dynamics and materials science, Gerhard has been named on over 20 patents.

REGISTRATION FORM

Name : _____

Title : _____

Company : _____

Company Address : _____

Email : _____

Your PO number : _____

Send invoice to : _____

Price for this training is 375 euro per person per day.

For further information, kindly contact your local Swagelok sales representative or check our website.

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October 2 2017

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**Limited seats
available.
Kindly confirm your
attendance latest
by Sept. 25 2017.**

**Fill in this form and
subscribe directly**