OLI Studio ScaleChem Basics (SCB)

Description: Two, 3-hour sessions in upstream electrolyte simulation with OLI Studio: ScaleChem

Summary The **Studio ScaleChem Basics** course introduces the OLI Studio: ScaleChem interfaces, describes how the software handles scaling problems, and touches on some important chemistry principles.

Who should attend: Beginning and prospective OLI clients. Class is designed for participants with little or no knowledge of OLI simulation techniques. Intermediate level clients wanting to refresh their skills may also join this class; there are extra problems in each section that allow for independent inquiry.

Instructor: AJ Gerbino, PhD, an electrolyte simulation expert and author of the workshop

Cost: **Web Training (SCB, Short Course)** via WebEx
$500 USD per seat (multiple participants allowed per seat)

Register: Online: https://www.olisystems.com/oli-training
Email: dira.silvera@olisystems.com
Phone: USA 1-973-998-0240 x114

OLI Software: All participants receive 30-day evaluation copies of the full OLI Studio, which includes Stream Analyzer, Corrosion Analyzer, and Studio ScaleChem.

Accommodations: Please have a computer with two monitors, and ensure that you can log into Cisco's WebEx.

Custom training sessions available

OLI offers custom training in upstream simulation techniques using the OLI Studio either via custom web sessions or onsite at your company.

Please contact Dira Salama for more details about custom trainings at dira.silvera@olisystems.com

Studio ScaleChem Basics Course Content

This workshop will teach upstream electrolyte chemistry concepts and electrolyte simulation techniques using a training manual that starts by modeling a single well. The chapters get progressively more advanced as participants learn more features about the software.

OLI Systems, Inc., 240 Cedar Knolls Road, Suite 301, Cedar Knolls, NJ USA 07927 www.olisystems.com
Phone: 1-973-998-0240 (Software access, simulation studies) or 1-973-539-4996 (OLI main) sales@olisystems.com for inquiries

Chapter 1 – Introduction to ScaleChem
This is a General Introduction chapter that participants can view in advance or following the course.

Chapter 2 – Creating a New Brine and Scale Calculation
Participants will learn the basics of entering a brine analysis and calculating a scale tendency. Some of the key elements taught, are to distinguish among the three reconciliation options and to consider scaling as a function of production rate at standard conditions.

Chapter 3 – Entering a Gas Analysis
Participants will enter a gas analysis and calculate water saturation in the gas.

Chapter 4 – Reservoir Saturation
Participants will learn how to set the initial solid saturation conditions at certain conditions. This chapter describes the merits of assuming equilibrium saturation between solids and the contacting waters.

Chapter 5 – Contour Diagrams
Participants will calculate scaling tendencies and other variable using a different approach, which shows results with contour diagrams.

Chapter 6- Building a New Case
Having some experience with building a well, participants will build a new case from the ground up.

Chapter 7 – Facilities
Participants will learn how to use the advanced facilities application. This application allows users to create simple process flow scenarios.

Chapters 8 – Oil Well
Participants will learn how to add an oil analysis, including a distillation assay and pseudocomponents.

Chapter 10 – Alkalinity
Participants will run several calculations pertaining to Alkalinity. This chapter reinforces the importance of Alkalinity to the properties of a produced water and its impact on overall mineral scale potential.

Chapter 11 through 20 – Example Applications
These chapters cover real world examples, and the challenges faced when trying to recreate the chemistry and flow of the system.

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