

## MEET OLI



## COMPANY DESCRIPTION SHEET

OLI simulation software and technology is the standard for simulation of electrolyte systems. OLI has established an extensive CPI client base and reputation for excellence based upon our products and technical support. We have served the CPI and related industry for almost 35 years, specializing in complex electrolyte systems.

OLI products are now used by hundreds of process engineers, industrial chemists, chemical process technologists, researchers, corrosion specialists, and process design engineers.

Our clients are found within chemical manufacturing and engineering service companies, and public and private research organizations in over 35 countries on 6 continents worldwide, including nearly all of the world's 30 largest chemical and petroleum companies. Starting in 2000, with extensive support from the US Government in the form of four major awards for sponsored research, OLI has extended its predictive capabilities to encompass mixed solvent electrolyte systems as well and has also broadly expanded its technology and software for prediction of corrosion.

In 1990, OLI "cracked the code" when it comes to rigorous prediction of the chemical reaction and phase behavior of complex mixtures of chemicals in water under modest to extreme conditions of temperature, pressure, and ionic strength. The combination of thermophysical properties models, solvers, and databank that enable this unique capability is known as the OLI Engine.

Since 1990, OLI has built on this technology base a family of simulation technology and software products, with applications covering chemical processes, rates of corrosion, oilfield scale prediction, water treatment, and environmental simulation. The OLI Engine is also available through all of the major process flowsheet simulators currently in use worldwide, including UniSim, Aspen Plus, HYSYS, PROII, gPROMS, and IDEAS.

## PROBLEM SOLVING MADE EASY

OLI software makes it possible for users to:

- Anticipate, diagnose, avoid and fix costly problems in chemical and petroleum operations
- Minimize the time, cost, inaccuracy and risk of lab, pilot or plant / field tests
- Accurately predict the behavior of any mixture of chemicals in water and mixed solvents
- Simulate aqueous or mixed solvent processes and corrosion
- Develop unique solutions for corrosion as well as oil and gas well plugging,
- Address wastewater contamination
- Fine-tune chemical processing plant operation and optimization.

## BENEFITS TO YOU

The result for you is:

- |   |                        |
|---|------------------------|
| • Saved engineering, lab and pilot plant time | • Increased production |
| • Lower cost engineered solutions             | • Avoided problems     |
| • Improved process operations                 | • Mitigation of risk   |
| • Improved asset management                   |                        |



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## OLI VALUES

OLI has four passions that drive everything we do:

- The right chemistry
- Advanced technology
- Easy to learn and use interfaces
- Expert service

OLI is proud to be a different kind of simulation company, dedicated to technology development and committed to customer service, tech support, and training.

OLI believes that no matter what the process problem is, the solutions starts by getting the chemistry right. This relentless pursuit of accurate chemical simulation allows OLI to address problems that no one else attempts, let alone succeeds in solving. A case in point is OLI's new Mixed Solvent Electrolyte (MSE) model and databank. The MSE model and databank, now available in a beta version, enables chemical process simulations that were not possible to accomplish otherwise.

We never stop looking for new applications and simulation technology to leverage our powerful chemistry capability.

## PRODUCTS

The OLI Simulation Studio includes these packages:

- **ESP** Electrolyte process flowsheet simulation for conventional, multi-stage, environmental and control unit operations
- **CSP (Corrosion Analyzer UI)** Corrosion rate prediction, pitting indicator and real-solution stability diagrams for understanding the corrosion environment
- **OLI Engine (Stream Analyzer UI)** A virtual chemistry lab on your desktop; general purpose electrolyte equilibrium for single point, survey, as well as mix and separate calculations
- **ScaleChem** Oilfield scaling prediction for oil and gas production
- **Alliance Engine** OLI Alliance Suite for UniSim  
OLI Alliance Suite for HYSYS Electrolytes OLI™ (HEO)  
OLI Alliance Suite for Aspen OLI  
OLI Alliance Suite for FactSage OLI  
OLI Alliance Suite for gPROMS  
OLI Alliance Suite for IDEAS

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