

2016-2017 SPE Romanian Section Technical Program

SPE Romanian Section Symposium: “Software Systems for E&P Sector of Petroleum Industry”

Technical Presentation: “Dynamic simulation using Petrel and ECLIPSE”

15 November 2016, Universitatea "Al. I. Cuza", Iasi



Liviu Dumitrache, Sr. Res. Eng.
Schlumberger Production Management, Medias

Abstract

Reservoir simulation models are used by oil and gas companies in the development of new fields. Also, models are used in developed fields where production forecasts are needed to help make investment decisions.

The Petrel E&P software platform brings disciplines together with best-in-class applied science in an unparalleled productivity environment. This shared earth approach enables companies to standardize workflows from exploration to production—and make more informed decisions with a clear understanding of both opportunities and risks.

The ECLIPSE industry-reference simulator offers the industry’s most complete and robust set of numerical solutions for fast and accurate prediction of dynamic behavior for all types of reservoirs and development schemes. The ECLIPSE simulator has been the benchmark for commercial reservoir simulation for more than 25 years thanks to its extensive capabilities, robustness, speed, parallel scalability, and unmatched platform coverage. With over 30 years of continuous development and innovation, the ECLIPSE simulator is the most feature-rich and comprehensive reservoir simulator on the market—covering the entire spectrum of reservoir models, including black oil, compositional, thermal finite-volume, and streamline simulation.

Biography

Liviu Dumitrache is the Reservoir Engineer for the Laslau Mare project based in Medias. Previously, he has been a trainer and support engineer for Schlumberger’s reservoir engineering pre/post processors as Petrel, ECLIPSE Office, processors as ECLIPSE, INTERSECT, decline curve analysis applications as OFM. In the past, Liviu has been a directional drilling engineer with Weatherford Romania.

At the moment, Liviu is a PhD student of the Petroleum Gas University of Ploiesti in his second year of study and has 9 years of experience in the oil and gas industry throughout which he has specialized mostly in static and dynamic reservoir modeling and simulation, wellbore and network flow simulation and decline curve analysis. In his professional and academic life, Liviu has given several technical presentations to a broad audience both internal and international.