Artem graduated from Moscow State Oil and gas university named after Gubkin, speciality “rock engineer” in 1995 (Moscow, Russia). Upon graduation from University in 1995, Artem joined Schlumberger as an engineer-geophysicist where he was working in different engineering positions, as well as in marketing role until 2002. In 2002–2003 Artem has joined a special Schlumberger project dedicated to Real-time Oilfield Project management organized by Schlumberger and Heriot Watt University (Edinburgh, Scotland) and following graduation from Heriot Watt joined Schlumberger Business Consulting (Paris, France).

During next period from 2004 through 2008 Artem took a role of business development manager for Schlumberger Information Solutions based in Moscow and then was promoted to GeoMarket marketing manager (South region) based in Tyumen, Russia. In 2008 Artem took a role of vice-president Software Information Solutions, Russia, where he successfully led the company throughout crisis period and managed to establish Software Technology Centre that was building the backbone of the Ocean development in Russia. From 2010 through summer 2013 Artem was director of Personnel Schlumberger Russia and Central Asia, where he was engaged in major company transformations in connection to development of company’s human capital in new territories of expansion, integration of newly acquired companies into business environment of Schlumberger. From 2013 is vice-president Sales for Schlumberger company – Software Integrated Solutions, responsible for global strategic business development, expansion into new geographical and technological territories based in London, United Kingdom.

SPE member since 2003.

ABSTRACT

It is undisputed, that the so called “digital revolution” has completely changed some of the industries’ landscape and also dramatically affected our day-to-day life. Despite information technologies were applied in E&P industry for decades, these did not fundamentally transform the way we operate when exploring, developing and producing hydrocarbon resources. With the recent fundamental economic changes occurred at the end of 2014 that drastically affected E&P industry as well as with the new information technology capabilities we entered the perfect storm that is making it possible today to commence the fundamental changes in our industry that were delayed for some time. In this presentation we will only cover a few examples of how new digital technologies are changing the E&P landscape today and will also discuss next steps (as Schlumberger sees them), that are required for fundamental and long-term changes that shall dramatically improve E&P operations performance efficiency.

ARTEM KARAPETOV

Vice-President, Sales Software Integrated Solutions, Schlumberger

In 2005 Alexey graduated from Novosibirsk State University, Department of Physics. He holds a bachelor’s and a master’s degree in physics. In 2006 Alexey successfully received a master’s degree in petroleum engineering at Heriot-Watt University and at the same time he received a degree in Oil and Gas Field Development and Operation at Kirov Tomsk Polytechnic Institute. In 2015 Alexey graduated from Moscow International Higher Business School MIRBIS studying there strategic management and received a master’s degree in Business Administration.

Alexey is an experienced specialist who has worked in scientific institutions such as Institute of Nuclear Physics SB RAS, Institute of Hydrodynamics SB RAS, Institute of Semiconductor Physics SB RAS. He also has previous experience as head of Geology and Field Development at Tyumen Petroleum Research Center, TNK-BP. In 2010 Alexey was invited to lead the Development sector in NOVATEK STC LLC. Currently he is a candidate for PhD in Engineering Science, an author and co-author of 30 research papers and one patent.

ABSTRACT

The paper presents the core of integrated approach in field development implemented in NOVATEK, PJSC. Integrated model case studies are demonstrated in the paper for field at early stage of production design and for field under development monitoring.

ALEXEY YAZKOV

Deputy General Director, NOVATEK STC

Kirill Bogachev is the CTO of Rock Flow Dynamics. Kirill graduated from the faculty of Mathematics and Mechanics of Moscow State University. He is one of the leading experts in the area of high-performance parallel computing. Kirill holds degree of Dr. of Science.

He worked in YUKOS as the key software developer for dynamic reservoir modeling. In 2005 he became a co-founder and CTO of Rock Flow Dynamics, which develops tNavigator – software package for reservoir modeling.

Kirill also gives lectures to the students studying numerical mathematics on the faculty of Mathematics and Mechanics in Moscow State University.

ABSTRACT

In this talk, the author will give an overview of the capabilities of the modern hardware platforms for high-performance simulations. Detailed analysis of the hardware architecture and characteristic features of personal computers and workstations, high-performance clusters, graphical adapters and cloud platforms will be presented.

There will be a discussion about computational performance of these platforms in application to the reservoir simulations, and also about potential technical limitations.

KIRILL BOGACHEV

CTO, Rock Flow Dynamics