

“Production Technology in Oil & Gas Developments”

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Since its inception in the late 1850's, technology innovation has driven the oil and gas industry, enabling a world oil production in the order of 83 MMBBL/d. Commercial production of oil and gas requires a closely integrated platform of complementary technologies, from 3D-subsurface imaging, precision steering of the drill bit, complex multi-zone completions in horizontal wells to precisely placed well stimulation such as hydraulic fracturing, the remote sensing, real-time monitoring and dynamic modelling of reservoirs and fields.

Our hydrocarbon age is sustained by innovations in technology that allow us to recover more hydrocarbons, safely and efficiently from increasingly challenging locations and subsurface geology. In this presentation we will touch upon some of the technologies that are enabling difficult and unconventional formations such as shale to be developed commercially. We will examine some of the key components that comprise these production technologies and assess their contribution to maintaining a sustainable oil and gas industry within our societies.