



## QATAR CHAPTER



**SPWLA Qatar Chapter Virtual Event**

**08<sup>th</sup> March 2021**

**12:00 - 13:00**

**Guest Speaker**

**Max Podolyak**

Technical Director/ SME  
Rock Properties Middle East  
CoreLab

***“Rock Characterization by X-Ray Scanning -  
New Technology for Visualization and Rapid  
Quantification of Rock Properties”***

**Zoom Meeting ID: 206 811 7061**

**Meeting Passcode: 646040**



## Society of Petrophysicists and Well Log Analysts Qatar Chapter

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### Virtual Technical Talk

The SPWLA – Qatar Chapter cordially invites you to a technical talk

**Date:** 08<sup>th</sup> March 2021  
**Time:** 12:00 – 13:00 Qatar Time (Virtual Doors open at 11:45 AM)  
**Venue:** Zoom Virtual Meeting  
**Details** Zoom Meeting ID: 206 811 7061  
Meeting Passcode: 646040

**Presenter:** Max Podolyak – Technical Director/ SME - Rock Properties Middle East, CoreLab  
**Topic:** Rock Characterization by X-Ray Scanning - New Technology for Visualization and Rapid Quantification of Rock Properties

Rapid, non-destructive screening using high-frequency imaging techniques now provides a viable solution not only for the superior visualization, but also detailed quantitative core assessment. These deliverables are available even before the whole core is removed from the liners and other measurements are commenced. Furthermore, X-ray scanning at two energy levels provides high resolution bulk density and photoelectric factor measurements. These data in conjunction with extensive laboratory-based mineralogy and density calibrations result in a detailed lithological description and a suite of data which including high resolution bulk density, photoelectric factor, porosity and geomechanical properties such as unconfined compressive strength, sonic, Poisson's ratio and Young's modules.

Such high definition X-ray data at 250 micrometer resolution also provide information complementary to borehole images which makes bedding interpretation advanced and accurate. A tertiary benefit of this technology is its use as an aid in sample selection decisions for geological, mechanical, and advanced rock testing, leading to a higher confidence in reservoir upscaling. These new image acquisition and processing techniques not only provide unique tools to characterize reservoirs but also deliver rapid and accurate petrophysical measurements.

### Biography:

Max Podolyak is a subject matter expert for Rock Properties Group at Core Laboratories International with 14 years of industry experience. He has a BSc degree in Rock Physics and Engineering from Moscow School of Mines and MSc in Petroleum Engineering at Heriot-Watt University, Edinburgh. Max has a broad technical experience working with industry leading core analysis service providers, including Reslab UK and consultancy company LR-Senergy International. Since 2016 Max has been fulfilling the role of a Champion for Development and Training, with over 20 core analyses courses delivered to NOC's and IOC's in Asia Pacific and Middle East. For the last two years Max has served VP Technical role for the SPWLA Malaysia and he is also a regular presenter for Asia Pacific regional technical sessions with SPE and SEAPEX. From late 2020 Max has been appointed as a Technical Director for Core Laboratories Middle East, based in Qatar.