

Fast and Furious: Living Every Well a Millisecond at a Time

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Abstract

Frequently geoscientists get caught up in the details of the work that they are doing and don't look at the big picture: How will my work advance the company's bottom line? If we can't make the argument that we are useful to the company, we run the risk of being useless. In this presentation, I will try to illustrate how we geoscientists can make technological advances, requiring attention to detail and creativity, but still serve a larger role. Examples that I will use are (1) Data Acquisition--Distributed Acoustic Sensing utilizing fiber optics. This is where the most significant improvements can be made. (2) Fracture Modeling—Temperature Differentials. Take a step back to see whether scale or more data gives better outcomes. (3) Increasing Speed—using big data analytics and neural networks. Sometimes a quick solution is a higher priority than the perfect solution. (4) Automate when possible. Look for those tasks which are amenable to automation. All of these tasks are challenging and will fulfill our need to be creative but, at the same time, they increase productivity and will increase the value of geoscientists to the business.