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## History of $\mu$ SR: Applied Particle Physics

*Thursday 6 June 2019 11:15 (30 minutes)*

I will review the history of muon spin rotation/relaxation/resonance ( $\mu$ SR), from its origins in elementary particle physics through its evolution into an essential probe of molecular and materials science, noting how each solution to a *problem* for one use of muons engendered *opportunities* for other uses. Canada has played a disproportionate role in this saga, in a series of technological “firsts” that are now indispensable tools in laboratories around the world. After tracing the path from 1957 to the present, I will speculate about possible futures for  $\mu$ SR.

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