

Tues., November 24: 11:30 am until 12:00 pm; Virtual/Rm 300

**Jeffrey A. Abell, PhD, FSME, PE
Class of 1980**



Dr. Jeffrey Abell is Director and Chief Scientist of Manufacturing Systems Research at General Motors. He is responsible for manufacturing research in the company including vehicle electrification, lightweight materials processing, automation, and artificial intelligence/analytics. Previously, he was responsible for battery manufacturing research and his team played a key role in bringing the Chevy Volt advanced high-power battery to production. He has successfully implemented various evolutionary based optimization methods to solve complex industrial design problems and was awarded the 2011 and 2014 General Motors Boss Kettering Awards for outstanding technical innovation.

Dr. Abell has also held a number of positions in the product development and manufacturing engineering at GM, Delphi, and DaimlerChrysler, including two international assignments.

Dr. Abell is a Fellow of the Society of Manufacturing Engineers (SME) and a licensed Professional Engineer (Michigan). He has written numerous technical publications and is active in various professional societies and associations. He has also received numerous patents for multiple inventions.

Jeffrey received his Bachelor of Mechanical Engineering degree in 1985 from General Motors Institute (now Kettering University, located in Flint, Michigan). He received his Master of Science degree (1987) and Doctor of Philosophy degree (1992) in Systems Engineering from Oakland University, located in Rochester, Michigan.

His favorite Carroll memories are from the Science Fair: being able to think outside the box and try something new and innovative. Jeffrey's sister (Cheryl "Michelle" Novogradac '68), brother (Joseph '70) and sister-in-law (Geri Metz '70) are all Carroll alumni.

Carroll High School Activities: German Club, Key Club, National Honor Society, Science Fair Participant, Soccer

Dr. Abell's Linked-In Profile:

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