**The Role of Combustion in our Eclectic Transportation Future**

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Media stories declaring the death of the internal combustion engine have become commonplace in the last few years. Recently several automotive companies have pledged an electric future, and governments have proposed bans on gasoline- and diesel-powered vehicles. Since the dieselgate scandal of 2015, the demonization of engines has spread, despite continual improvements in efficiency and significantly reduced emissions.

This talk will untangle the myths of internal combustion and argue that, although the use of electrification will continue to rise, the IC engine holds a firm place in both future transportation needs and various industrial sectors. With continued research and development, internal combustion will become even cleaner and should remain at the heart of transportation systems for years to come.

**Dr. Kelly Senecal** received his Ph.D. from the University of Wisconsin-Madison’s Engine Research Center and is a co-founder and owner of Convergent Science. He is one of the original developers of CONVERGE, an industry-leading computational fluid dynamics solver. Dr. Senecal is a Fellow of the Society of Automotive Engineers, a member of the executive committee of the American Society of Mechanical Engineers ICE Division, and was the 2019 recipient of the ASME Internal Combustion Engine Award. In addition to his role at Convergent Science, Dr. Senecal is the director and co-founder of the Computational Chemistry Consortium (C3), an adjunct professor at the University of Wisconsin-Madison, and an associate editor of *Transportation Engineering*. Dr. Senecal tirelessly advocates for the importance of combustion research through invited talks, journal articles, and both the mainstream and social media.