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**HOPE ALDERSON**, University of New Brunswick  
*Balancing Technology and First Principles in Engineering Mathematics*

While the mathematical content of many university courses has changed little over time, the context in which students learn mathematics has changed considerably. Engineering students today have immediate access to computational software, online resources, and generative AI tools, prompting renewed questions not only about how to solve problems, but also why certain mathematical skills still matter.

Drawing on experiences teaching mathematics courses for engineering students, coordinating mathematics support services, and engaging with industry, this presentation reflects on how students' attitudes toward mathematics, problem solving, and computation may be evolving alongside changing accreditation requirements and professional expectations within engineering education. While technology can increasingly perform symbolic computation, the need for students to understand first principles, assess the reasonableness of results, and apply mathematical judgment may be stronger than ever. The talk will explore what mathematics educators may need to adapt, or perhaps preserve, in response to these changing learning environments.