

Center for Computational Engineering

2018 *Student Symposium*

Haus and Allen Rooms (36-462 and 36-428)

4:00 PM | Thursday, March 15

4PM Keynote | 5PM Poster Session with Reception to follow

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Keynote:

Numerical Computing without Discretization Woes

Professor Alex Townsend, Cornell University



Abstract: Most of the time, we are not concerned with how the real number line is discretized by floating-point numbers on a computer, or how our laptops perform fast and reliable arithmetic. This frees our creativity to tackle higher-level computations. In this talk, I will focus on our progress towards more adaptive, more reliable, and more exploratory numerical algorithms that aim to alleviate us from worrying about the underlying discretization of functions, differential equations, and geometries.