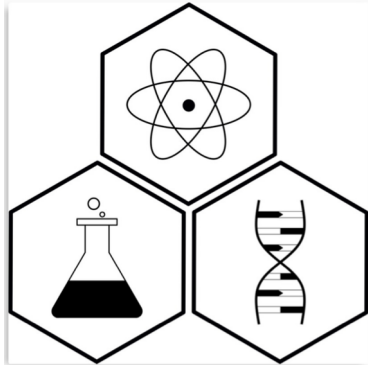


The Reese T. Prosser Mathematics Lecture Series

Presents

# Mathematics and science: the Abel and Nobel Prizes



Bjorn Engquist is the Computational and Applied Mathematics Chair I, and is director of the ICES Center for Numerical Analysis at University of Texas at Austin. Engquist's research focuses on development and analysis of numerical methods for differential equations.

We will answer the questions: “why is there no Nobel Prize in mathematics” and “how did the Abel Prize get started” as a beginning to a discussion on mathematics and science. This is related to scientific computing, which is often referred to as the third pillar of science, complementing experiments and theory. It has also enabled large parts of sophisticated mathematics that previously was not regarded as having applied value to impact science and engineering. We will give some elementary classical examples and see how modern versions of these examples engage deeper mathematics and enhance science. Finally, we will remark on the future of mathematics and scientific theory in the world of big data and machine learning.

**Thursday, October 17, 2019**

**6:00 – 7:00 PM**

**100 Arvo Oopik '78 Auditorium  
Life Sciences Center**