

An ICERM Public Lecture at Brown University

MODELING SEA ICE

in a changing climate

Wednesday, April 26, 2017

6:00 pm light refreshments

6:30 pm lecture begins

ICERM

*The Institute for Computational and
Experimental Research in Mathematics*

121 S. Main Street

11th floor

Providence, RI 02906

This event is free and open to the public.
Reservations are required.

Reserve your seat today!

<http://icermmelt.bpt.me>

Members of the community are invited

to attend a public lecture by Ken Golden, who is often described as the Indiana Jones of Mathematics. In his talk, Dr. Golden will explain how new mathematical models promise better understanding of the precipitous loss of Arctic sea ice, which has far outpaced expert predictions. Come along as he explores the crucial role of math in improving sea-ice projections and takes us (via video) on an Antarctic expedition.

Dr. Golden will show how mathematical models of composite materials and statistical physics are being developed to study key sea ice structures and processes and advance how sea ice is represented in climate models. Golden's theories of sea ice behavior have been developed in conjunction with his field experiments in both the Arctic and Antarctic. This work is helping to improve projections of the fate of Earth's ice packs and the response of the polar ecosystems they support.



Kenneth Golden is a Distinguished Professor of Mathematics and Adjunct Professor of Bioengineering at the University of Utah. His scientific interests lie in sea ice, climate, composite materials, percolation theory, statistical physics, diffusion processes, and inverse problems. He has published papers in a wide variety of scientific journals, been interviewed numerous times on radio and television, and given over 400 invited lectures, including three presentations in the US Congress. Golden has journeyed to Antarctica and the Arctic many times to study sea ice. He is a Fellow of the Society for Industrial and Applied Mathematics, the American Mathematical Society, and the Explorers Club, whose members have included Robert Peary, Sir Edmund Hillary, Neil Armstrong, and Jane Goodall.



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