**Videos of Recent Public Lectures**

Julian Clancy Frazier Mathematics Colloquium, US Naval Academy, January 29, 2025

https://www.math.utah.edu/~golden/docs/media/media\_2025/Ken\_Golden\_US\_Naval\_Academy\_JCF\_Math%20Colloq\_Jan\_29\_2025.mp4

REDTalk, University of Utah 175th Anniversary Celebration, April 3, 2025

Overview and access to all REDTalks (and short story on each presenter):

<https://attheu.utah.edu/facultystaff/red-talks-event-celebrates-the-future-of-innovation-and-discover-at-the-u/>

Ken Golden’s REDTalk directly at:

<https://www.youtube.com/watch?v=hMrf1E5uZiM>

Reid Lecture at California State University San Marcos, April 17, 2025

<https://csusm-my.sharepoint.com/:v:/g/personal/akundgen_csusm_edu/Efz4NvosTONHu7fHFZK2yFYBpy5W9Kltci69W4fK0uCXwA?e=HNv0mf>

Video produced by the University of Utah to open my Frontiers of Science Public Lecture, 2021

<https://www.youtube.com/watch?v=5ZagWEPgADo>

**Two videos produced by NSF that are no longer on NSF website**

NSF, On Golden’s Melt Pond: Math on Ice, 2015

<https://www.facebook.com/US.NSF/videos/10153586407722900/?locale=tl_PH&_rdr>

and

<https://www.math.utah.edu/~golden/docs/media/media_2025/NSF_OnGoldensMeltPond.mov>

NSF Science Nation, 2014 Mathematician combines love for numbers and passion for sea ice to forecast melting.

<https://www.math.utah.edu/~golden/docs/media/media_2025/NSF_Science_Nation_FINAL_Golden_Dec_2013.mp4>

**Journal Cover**

N. Kraitzman, R. Hardenbrook, H. Dinh, N. B. Murphy, E. Cherkaev, J. Zhu and K. M. Golden, Homogenization for convection-enhanced thermal transport in sea ice, Proceedings of the Royal Society A Mathematical, Physical & Engineering Sciences 480(2296), 20230747 (22 pp. and issue cover), 2024.

Cover in PDF format in 2025 folder.

**Media**

Link to “22 news stories from 18 outlets” connected to #9 and #10 on publication list:

https://royalsociety.altmetric.com/details/166743193/news

Some of the above stories and a couple others:

Eos, American Geophysical Union, Heat moves more freely through warmer sea ice than scientists thought, Nathaniel Scharping, October 2024

<https://eos.org/articles/heat-moves-more-freely-through-warmer-sea-ice-than-scientists-thought>

The National Tribune, Queensland Australia, Mathematicians crack a sea ice puzzle that advances what we know about global warming, Macquarie University/The Lighthouse, August 2024

<https://www.nationaltribune.com.au/mathematicians-crack-a-sea-ice-puzzle-that-advances-what-we-know-about-global-warming/>

PhysicsWorld.com, Convection enhances heat transport in sea ice, Isabelle Dumé, September 2024

<https://physicsworld.com/a/convection-enhances-heat-transport-in-sea-ice/>

SIAM News, The dynamics of algae and exopolymeric substances in sea ice, Lina Sorg, June 2024

<https://www.siam.org/publications/siam-news/articles/the-dynamics-of-algae-and-exopolymeric-substances-in-sea-ice/>

Popular Mechanics, How atomic-scale geometry might shape the future of electronics, Adrienne Bernhard, June 15, 2023

<https://www.popularmechanics.com/preview/draft/science/math/a44209885/twistronics-aperiodic-geometry/?content=fd5535b0-57d2-49ef-8097-0a7e1dbdc5c7&type=standard-article>

ScientificAmerican.com, Magnet and neuron model also predicts Arctic sea ice melt, Leila Sloman, July 2019

<https://www.scientificamerican.com/article/magnet-and-neuron-model-also-predicts-arctic-sea-ice-melt/>