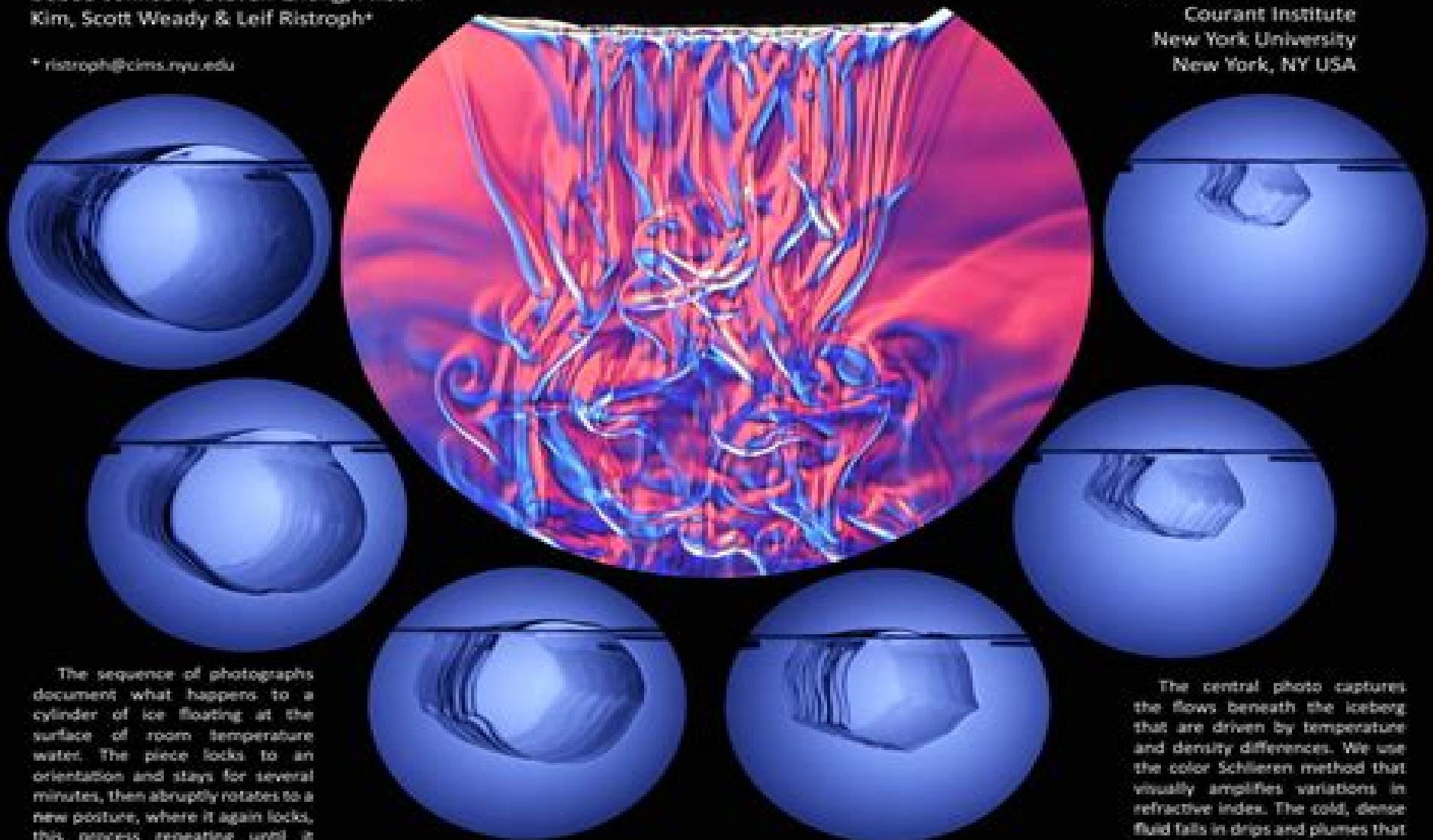


# Lab icebergs melt down and flip out

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The sequence of photographs document what happens to a cylinder of ice floating at the surface of room temperature water. The piece locks to an orientation and stays for several minutes, then abruptly rotates to a new posture, where it again locks, this process repeating until it melts away. The images are taken between flips. Variable intensity backlighting and refraction through the ice help to show its faceted shape and surface patterning.

The behavior of ice is a symptom of our planet's health. Natural ice is dynamic, growing, shrinking and breaking off as icebergs that drift and capsize. In our lab study, we found that melting makes floating ice "uncomfortable" and causes it to flip, roll and tumble.

The central photo captures the flows beneath the iceberg that are driven by temperature and density differences. We use the color Schlieren method that visually amplifies variations in refractive index. The cold, dense fluid falls in drips and plumes that scar the ice surface with wavy patterns. Gradual melting of the undersurface leaves the body increasingly top heavy, causing it to lose gravitational stability and later roll over.

# Gallery Of Fluid Motion

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## **Table of Contents Gallery Of Fluid Motion**

1. Understanding the eBook Gallery Of Fluid Motion
  - The Rise of Digital Reading Gallery Of Fluid Motion
  - Advantages of eBooks Over Traditional Books
2. Identifying Gallery Of Fluid Motion
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Gallery Of Fluid Motion
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gallery Of Fluid Motion
  - Personalized Recommendations
  - Gallery Of Fluid Motion User Reviews and Ratings

- Gallery Of Fluid Motion and Bestseller Lists
- 5. Accessing Gallery Of Fluid Motion Free and Paid eBooks
  - Gallery Of Fluid Motion Public Domain eBooks
  - Gallery Of Fluid Motion eBook Subscription Services
  - Gallery Of Fluid Motion Budget-Friendly Options
- 6. Navigating Gallery Of Fluid Motion eBook Formats
  - ePub, PDF, MOBI, and More
  - Gallery Of Fluid Motion Compatibility with Devices
  - Gallery Of Fluid Motion Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gallery Of Fluid Motion
  - Highlighting and Note-Taking Gallery Of Fluid Motion
  - Interactive Elements Gallery Of Fluid Motion
- 8. Staying Engaged with Gallery Of Fluid Motion
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gallery Of Fluid Motion
- 9. Balancing eBooks and Physical Books Gallery Of Fluid Motion
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gallery Of Fluid Motion
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Gallery Of Fluid Motion
  - Setting Reading Goals Gallery Of Fluid Motion
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gallery Of Fluid Motion
  - Fact-Checking eBook Content of Gallery Of Fluid Motion
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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