

UNIVERSITY OF NORTH TEXAS MATHEMATICS UNDERGRADUATE COLLOQUIUM

**Tuesday,
Oct 15, 2013
4:00 - 5:00 PM**

**General
Academic
Building,
Room 105**

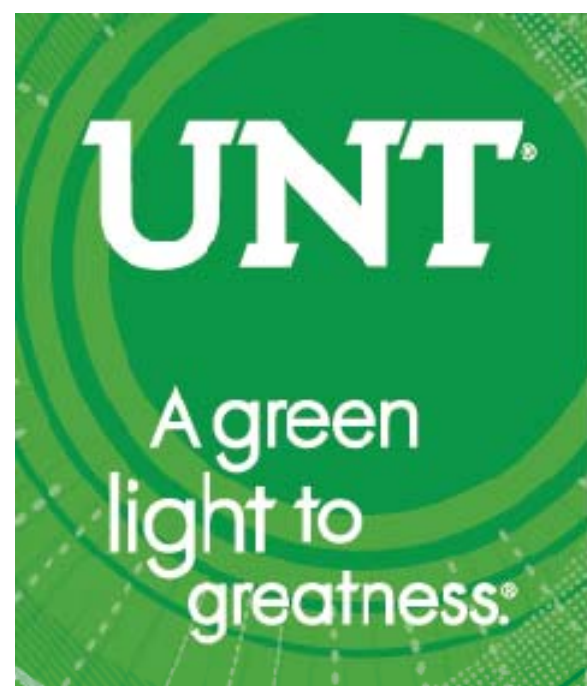
A pre-lecture reception with cookies, coffee and tea will be held at 3:30 PM in the General Academic Building, Room 472.

The colloquium is sponsored by UNT Department of Mathematics and the **RTG in Logic & Dynamics**, a research training group supported by the National Science Foundation and the University of North Texas.

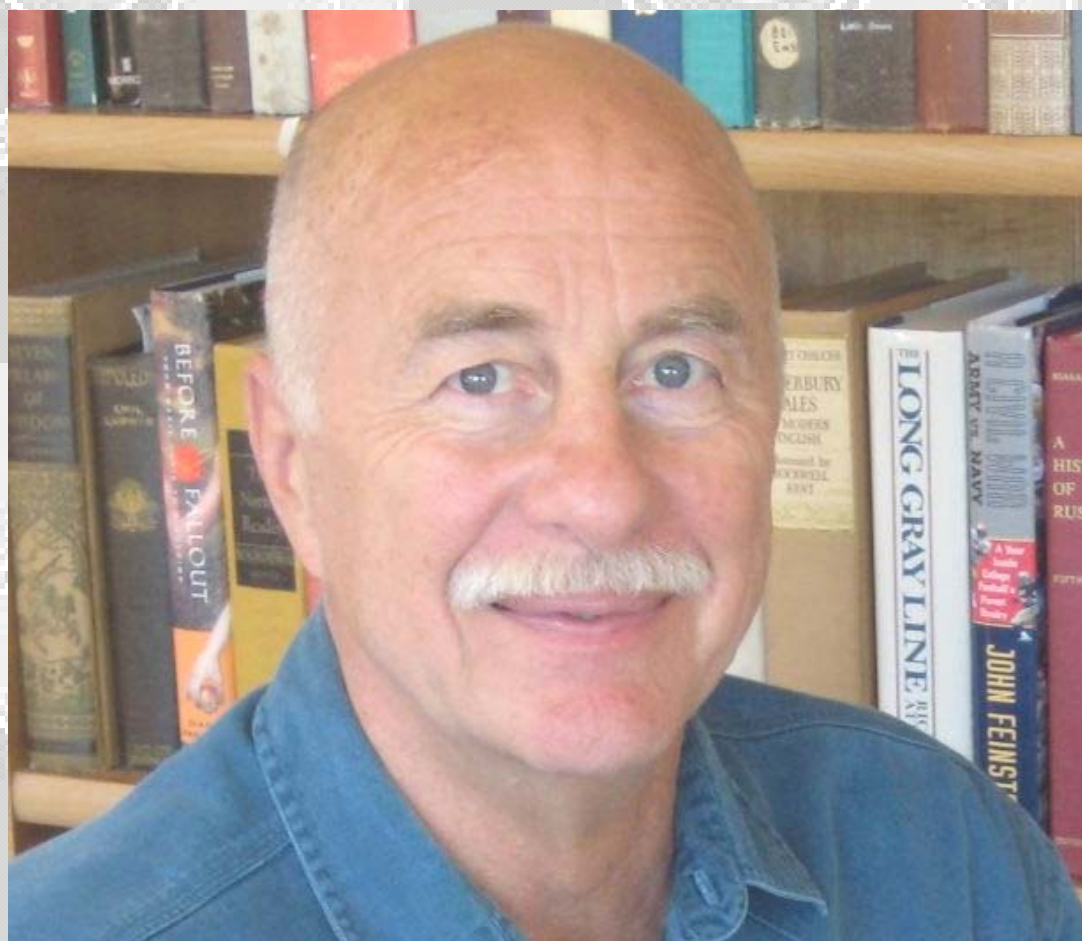
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UNT campus parking
information can be found at:
<http://www.unt.edu/transit/>

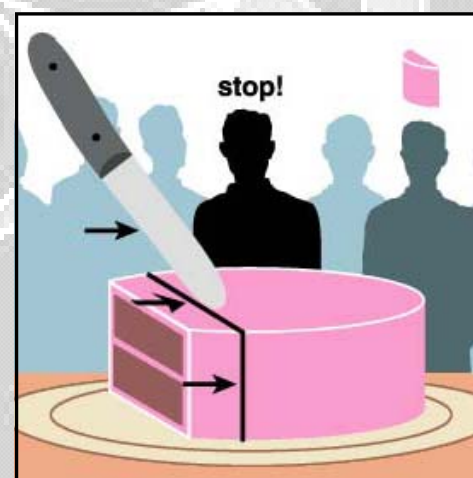
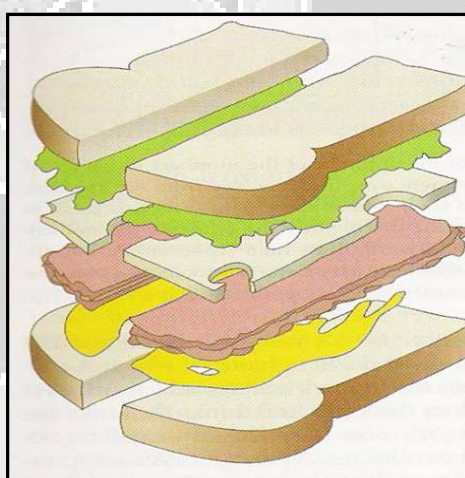


Ted Hill
Georgia Tech



Fair Division Problems

Since the dawn of history, people have battled over fair allocation of resources – from dividing pizza pies and layer cakes, to inheritances and disputed territories. In the past 80 years, a number of mathematical devices have been discovered that offer elegant, practical, and often surprisingly simple resolutions to many problems in fair-division. This lecture will discuss some of these, from Steinhaus's Ham Sandwich Theorem and the Dubins-Spanier cake-cutting algorithm, to recent discoveries and applications for disarmament, choosing leaders, and running eBay auctions.



Ted Hill is professor emeritus of mathematics at Georgia Tech, and has held visiting appointments in Amsterdam, Costa Rica, Göttingen, Mexico, Rome and Tel Aviv. He studied at West Point (BS), Stanford (MS), Göttingen (Fulbright scholar), Berkeley (MA, PhD), and Leiden (postdoc), and his primary research interests are in mathematical probability, especially Benford's law, optimal-stopping theory, and fair-division problems. His hobbies include hiking, skin diving and finding Early American mathematics books, which are now in a collection at the Bancroft Library at U.C. Berkeley.

More information about this dynamic individual can be found at
<http://people.math.gatech.edu/~hill/About2013.php>