MANY CHEERFUL FACTS

presents

Tiling Rectangles and Tori

a talk by Michael Hartglass

12:10–13:00 on Wednesday, April 23, in Evans 1015.

I will present some elementary proofs about a result regarding tiling a rectangle in the plane by "suitably nice" rectangles. I will then generalize the result to more interesting tilings and higher dimensions. Finally, I will conclude with some open questions regarding similar tilings of tori. This talk should be easily accessible and requires very little background.

I am the very model of a modern Major General,
I've information vegetable, animal, and mineral,
I know the kings of England, and I quote the fights historical
From Marathon to Waterloo, in order categorical;
I'm very well acquainted, too, with matters mathematical,
I understand equations, both the simple and quadratical,
About binomial theorem I'm teeming with a lot o' news,
With many cheerful facts about the square of the hypotenuse!

— Gilbert & Sullivan, $P \circ P$

The website for Many Cheerful Facts is
`http://math.berkeley.edu/~mcf/`