

UCCS Math  
Department  
*Distinguished*  
Lecture Series

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Presents  
Dr. Omer Angel  
Department of Mathematics  
University of British Columbia

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Tuesday  
SEPTEMBER 27, 2011  
12:30pm-1:30pm  
University Center Theater  
Room 302



Refreshments at 12:00 pm  
3rd Floor Lounge

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## RANDOM PLANAR MAPS

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**Abstract:** A planar map is a planar graph embedded in the plane, considered up to continuous deformations. These objects have been studied extensively in combinatorics, physics (as discrete random surfaces) and more recently probability theory. Much progress has been made in recent years in understanding the typical structure of these objects, and glimpses of a deeper theory are visible, particularly connecting the scaling limit of random planar maps with conformally invariant models of statistical physics. I will survey some results and conjectures concerning these objects, and discuss some recent progress in understanding percolation and random walks on these random graphs.

<http://www.uccs.edu/~math/distinguishedlec.html>