



**UCD School of  
Mathematics and Statistics**

University College Dublin  
Belfield, Dublin 4, Ireland

Tel +353 1 716 2580  
Fax +353 1 716 1196

**Scoil na  
Matamaitice agus na Staitisticí UCD**

An Coláiste Ollscoile, Baile Átha Cliath  
Belfield, Baile Átha Cliath 4, Éire

Email [seminars@maths.ucd.ie](mailto:seminars@maths.ucd.ie)  
Web [maths.ucd.ie/seminars](https://maths.ucd.ie/seminars)

## Analysis Seminar

---

**Brendan Guilfoyle (IT Tralee)**

will speak on

### **Curvature Flows**

Mon 10th June 2019 at 3:00PM

Location: Seminar Room SCN 1.25

The evolution of a surface by a given function of its curvatures, termed a curvature flow, arises in a number of areas, such as the erosion of a pebble under abrasion and the smoothing of images, as well as being of mathematical interest as PDE's. In this talk I will present some new ways to visualize curvature flows by considering their evolution in radius of curvature space. Some recent results proving convergence to non-round stationary solutions will be presented and applications to proving the existence of Weingarten surfaces will be indicated.

This talk is part of the **Analysis** series. For more, see  
<https://maths.ucd.ie/seminars>