## Project Presentations, 21 February 2013 - Overview

All talks will take place between 11.15am and 3.45pm in Áras de Brún and the Alexander Anderson Boardroom (QA113) in the Quadrangle. Everybody is welcome, and encouraged, to attend as many talks as they like. Speaking to no audience is no fun.

The schedule is pretty tight and lecturers will have to move between rooms, so it is important to be punctual.

Students should be present, at least, at the talks before and after their own. Speakers should talk for 10 min in order to allow for questions and transition between speakers.

|  |  | ADB-1020 |  | ADB-1019 |  | QA113 |
| :--- | :--- | ---: | :--- | ---: | :--- | ---: |
| 11.15 | P. McCaul | CR/DF | S. Curley | CS/TD | S. Mannion | AK/CT |
| 11.30 | E. Logue | DF/MT | D. Molloy | CS/EH | M. Bailey | CT/SR |
| 11.45 | M. Neely | DOR/MT | D. Maher | AMcC/EH | K. Keenan | AK/CT |
| 12.00 | J. Gallagher | AMcC/DOR | B. Dunne | JC/MMcG | M. Carroll | AK/SR |
| 12.15 | L. Burke | DOR/LN | D. O'Connell | CR/JC | P. O'Mahony | MH/SR |
| 12.30 | S. Keane | DOR/PP | S. Miley | JC/KJ | T. Hanlon | MH/MK |
| 12.45 |  |  |  |  |  |  |
| 13.00 | J. Doherty | MT/RR | K. Redmond | MD/PP | M. Hunt | EH/JS |
| 13.15 | P. O'Leary | LN/MT | P. Kelly | CS/MM | C. Doherty | $\mathrm{JN} / \mathrm{TD}$ |
| 13.30 | D. Sheerin | CR/MD | C. Feeney | EH/JS | E. Staunton | NM/RR |
| 13.45 | M. Liston | MM/TD | A. Loughnane | JS/MD | D. Flanagan | JN/MK |
| 14.00 | C. McGinty | NM/PP | J. White | MM/TD | D. Franklin | MH/RR |
| 14.15 | J. Burke | AMcC/KJ | N. O'Keeffe | LN/MM | O. | ES/GP |
| 14.30 |  |  |  |  | O'Mahony |  |
| 14.45 | D. Lenehan | GP/MMcG | W. Garnsworthy | LN/PP | L. Robbins | JW/KJ |
| 15.00 | S. Healy | CR/ES | N. Groarke | GP/NM | A. Raftery | AMcC/JW |
| 15.15 | M. Kieran | DF/KJ | D. Gavin | JS/MK | D. Jacob | JW/MMcG |
| 15.30 |  |  | L. Blue | DF/JC | O. McCarthy | ES/JW |

To round of the day there will be a wine reception at 4.30 pm in the Staff Club (south-east corner of Quadrangle) for all project students and supervisors, as well as all staff in the School of Mathematics, Statistics and Applied Mathematics.

Special thanks to Mary, Noelle and Collette in the Office and Jerome in the kitchen for all their help.

## Project Presentations in ADB-1020, 21 February 2013

| 11.15 | Paula McCaul | A Survey of the Octonions |
| :---: | :---: | :---: |
| 11.30 | Eimear Logue | The Partition Function |
| 11.45 | Matthew Neely | Discrete Opial Inequalities |
| 12.00 | Jason Gallagher | Mathematical Induction: the Role of Well-order and of Pedagogy |
| 12.15 | Linda Burke | Opial's Inequality |
| 12.30 | Stephen Keane | A Study into Generalizations of Opial's Inequality Involving Higher Order Derivatives |
| 12.45 |  | - break - |
| 13.00 | Jodie Doherty | An Application of the Monte Carlo Method to a Substitution Cipher Problem |
| 13.15 | Patrick O'Leary | The Cause and Effects of Gravitational Lensing |
| 13.30 | David Sheerin | Traffic Jams on a Main Road as it Passes Through a Bottleneck |
| 13.45 | Michelle M. Liston | Introduction to Applied Maths for Transition Year Students |
| 14.00 | Conor McGinty | Simulating Large Random Graphs and Social Networks |
| 14.15 | Jessica Burke | Logarithms |
| 14.30 |  | - break - |
| 14.45 | Diarmuid Lenehan | Analysis of Restricted Strategies of Quantum Tic-Tac-Toe |
| 15.00 | Sarah Healy | A History of Quaternions |
| 15.15 | Michael Kieran | The ABC Conjecture |
| 15.30 |  |  |

## Project Presentations in ADB-1019, 21 February 2013

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\begin{array}{ll}11.15 & \begin{array}{l}\text { Stephen J. Curley }\end{array} \\
\begin{array}{ll}\text { Fibonacci and the Golden Ratio and their Occur- } \\
\text { rences in Nature with a Focus on the Arabidopsis } \\
\text { Thaliana Epidermis and Nicotina Tobacum Epider- } \\
\text { mis }\end{array}
$$ <br>

11.30 \& Declan Molloy\end{array} \quad $$
\begin{array}{l}\text { Cluster Analysis and Applications to Education }\end{array}
$$\right\}\)| Mathematics Education and Real Life Applications: |
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## Project Presentations in QA113, 21 February 2013

| 11.15 Sean Mannion | The National Debt in Early 18th Century Ireland: <br> Exploring the Fiscal Constitution and Patterns in <br> the Data |
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| 11.30 Maureen Bailey | Investigating why Unemployment Reacted Differ- <br> ently During the Great Recession: Sweden -v- Spain |
| 11.45 Kevin Keenan | Determinants of Irish and Spanish Bond Yields |
| 12.00 Martina Carroll | The Financial Crisis from a Repurchase Market <br> Perspective |
| 12.15 | Paul O'Mahony | | Financial Derivatives |
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4.30 pm Wine reception in the Staff Club (south-east corner of Quadrangle)

