

# Cardiff University Student Chapter of SIAM, Wales First Chapter



# Members and Officers

The chapter encompasses students and faculty members in Mathematics and Engineering.

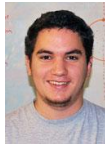
## Student Committee:



President  
Christopher Rowlatt  
(Mathematics)



Vice-President  
Olivier Goury  
(Engineering)



Treasurer  
Tom Croft  
(Mathematics)



Secretary  
Michael Walters  
(Mathematics)

## Faculty Advisers:



Prof Tim Phillips  
(Mathematics)



Dr Angela Mihai  
(Mathematics)

# SIAM Chapter Day

- Held on the 21<sup>st</sup> of January, 2013

- Invited lectures:

Prof Nick Higham (*University of Manchester*):

## **Accuracy and Stability of Numerical Algorithms**

Prof Alain Goriely (*University of Oxford*):

## **Inversion, Rotation, and Perversion in Mechanical Biology: From Microscopic Anisotropy to Macroscopic Chirality**

Dr Matthew Gilbert (*University of Sheffield*):

## **Application of Layout Optimization to Engineering Analysis and Design Problems**

Prof Simon Cox (*Aberystwyth University*):

## **Bubble-Scale Predictions of How Foams Flow**

# SIAM Chapter Day

- Poster presentations by doctoral students from Cardiff University and guests from the Universities of Manchester, Aberystwyth, and Swansea.
- The event featured in the April 2013 Issue of SIAM News.



# Research Seminars

Scientific seminars by junior researchers in mathematics or engineering:

- Dr Yousef Ghaffari Motlagh (*Cardiff School of Engineering*):  
**Isogeometric Analysis of Laminar and Turbulent Flows**
- Dr Alan Walker (*University of Glamorgan, Mathematics*):  
**The use of Fractal Geometry in the Design of Piezoelectric Ultrasonic Transducers**
- Dr Michael Strauss (*Cardiff School of Mathematics*):  
**Eigenvalue Approximation for Schrodinger and Dirac Operators**
- Dr Claire Heaney (*Cardiff School of Engineering*):  
**Adaptive Mesh Refinement: Its Application to Geotechnical Problems**

# Participation at National and International SIAM Events

- Tom Croft (Mathematics), *SIAM-UKIE Annual Meeting, University of Reading, UK, January 8, 2013*
- Ross McKenzie (Mathematics), Olivier Goury (Engineering), *SIAM Student Conference, University of Oxford, February 15, 2013*
- Michael Walters (Mathematics), *SIAM National Student Conference, University of Warwick, May 10, 2013*
- Olivier Goury (Engineering), *SIAM Annual Meeting (AN13), San Diego, California, USA, July 8-12, 2013. SIAM*