



Prifysgol Abertawe
Swansea University

School of Engineering
Swansea University



Wales Institute of Mathematical and
Computational Sciences

WIMCS ANNUAL LECTURE 2009



BLOODHOUND SSC

THE ADVENTURE BEGINS WWW.BLOODHOUNDSSC.COM

WEDNESDAY 7TH OCTOBER 2009
14:00 – 15:30 pm

FARADAY LECTURE THEATRE, SWANSEA
UNIVERSITY

This free event is aimed at year 12 students of
mathematics, physics and engineering

The Bloodhound Project is an exciting British engineering adventure that seeks to create a new world land speed record taking a car up to speeds of 1000 mph by 2011. But, most importantly, its ultimate goal is to inspire a new generation of engineers, mathematicians and scientists.

This lecture, delivered by key members of the Bloodhound team, will explain the importance of mathematics and science focussing on the themes of aerodynamics and computational modelling for which the School of Engineering at Swansea University is of worldwide renown. In particular, it will highlight topics such as simultaneous equations, forces, moments and basic gas relationships describing how an understanding of these will help the Bloodhound team keep the car safely pinned to the ground even at 1000mph!



Wales Institute of Mathematical and Computational Sciences

Sefydliad Gwyddorau Mathemategol a Chyfrifiannol Cymru

Digital Technium, Singleton Park Swansea University, Swansea, SA2 8PP
Tel: 01792 602854/5
Email: outreachcoordinator@wimcs.ac.uk
Website: www.wimcs.ac.uk

June 2009

Dear Sir/Madam

**WIMCS Annual Lecture 2009, Faraday Lecture Theatre, Swansea University
2.00 - 3.30 p.m. on Wednesday 7th October 2009**

After the success of last year's inaugural annual WIMCS lecture given by Johnny Ball, we are delighted to invite you and your students to the 2009 WIMCS event to be held on Wednesday 7th October. This year's lecture is aimed at year 12s, although year 11 students interested in maths and engineering are also welcome, and is on the *Bloodhound Supersonic Car – How and Why?* Dr Ben Evans will be the main speaker and will cover the background to the project, the role of Swansea University and the part played by computer modelling, simultaneous equations, aerodynamics, forces and moments. The lecture will include short activities for the students and time for questions.

Careers information will be available in the foyer of the Faraday both before and after the lecture. Student Recruitment is also offering campus tours on a first come first served basis to groups of up to 10 students before and after the lecture.

The event is **free**. To book your place, please complete and return the enclosed booking form as soon as possible (places will be allocated on a first come first served basis). Further details on the location and parking arrangements will be sent to you once your booking form has been received.

I hope that you and your students will join us on 7th October and I very much look forward to seeing you then.

Yours faithfully

Alison Braddock
WIMCS Outreach Coordinator

Enc – Booking Form