



SCHOOLS OF ELECTRONIC ENGINEERING &  
COMPUTER SCIENCE

## COMPUTER SCIENCE & ENGINEERING LECTURE

Wednesday 11<sup>th</sup> November 2009

Professor W T Hewitt

### WHY DO IT FOR REAL?

*“When I was an undergraduate in the early 1970’s Simulation and Modelling was just beginning to emerge as a discipline”.*

This talk will review how Simulation and Modelling and High Performance Computing (supercomputing), have evolved over the last 30 years. In particular, this presentation will demonstrate how they are clearly displacing experimentation and supplementing theoretical study. A number of examples from science and engineering will be examined and the cost effectiveness of simulation in industry will be shown. The talk will conclude by identifying the challenges for simulation in the 21st century.

**5.30pm – John Phillips Hall, School of Creative Industries  
& Media, College Road**

**Everyone welcome, no advance booking required.**

Refreshments available from 5.00pm





YSGOLION PEIRIANNEG ELECTRONIG A  
CHYFRIFIADUREG

## DARLITH CYFRIFIADUREG A PHEIRIANNEG

Dydd Mercher, 11 Tachwedd 2009

# Yr Athro W T Hewitt

## WHY DO IT FOR REAL?

*“Pan oeddwn i’n fyfyrwr is-radd yn nechrau’r 1970au, roedd Efelychu a Modelu’n dechrau ymddangos fel disgyblaeth”.*

Bydd y sgwrs hon yn adolygu sut mae Efelychu a Modelu a Chyfrifiaduro Perfformiad Uchel (uwch-gyfrifiaduro), wedi datblygu dros y ddeng mlynedd ar hugain ddiwethaf. Yn benodol, bydd y cyflwyniad hwn yn dangos sut y maent yn amlwg yn disodli arbrofion ac yn ychwanegu at astudiaeth ddamcaniaethol. Edrychir ar nifer o enghreifftiau o wyddoniaeth a pheirianeg a dangosir cost effeithiolrwydd efelychu mewn diwydiant. Bydd y sgwrs yn cloi drwy nodi’r heriau ar gyfer efelychu yn yr unfed ganrif ar hugain.

**5.30pm – Neuadd John Phillips, Ysgol Diwydiannau Creadigol  
a’r Cyfryngau, Ffordd y Coleg**

**Croeso i bawb, dim angen cadw lle ymlaen llaw.**

**Lluniaeth ar gael o 5.00 pm**

