



*Joint Event with the University of Bradford*

## ***RUNNING AN AUTONOMOUS ROBOT FROM 3000 KM***

**Tuesday 5 December 2006 from 7 p. m.**

**SPEAKER: Dr John Baruch**

**School of Informatics, University of Bradford**

Running the robot is only part of the success because it is like making the engine work in a car. The key problem in engineering is to deliver the capability for a product or a service that solves a problem. The problem is that the glorious procession of the stars across the sky every night has been lost to light pollution and it was this procession that inspired generations of young people to take up careers in science and engineering. Could the stars be made accessible again in all their wonder? The problem runs across astronomy, physics, robotics, autonomy, networking, education, e-learning, e-teaching, marketing and making the kit work at 8000 feet in a most hostile environment.

John launched the first robot on the web in December 1993. The talk will follow the progression of a technology programme in astronomy to becoming a revolutionary educational tool that brings the educational experience into the era of the Internet, the mobile phone, computer games and world wide Television. He has called this the e-laboratory and the speaker will introduce the challenge that is now faced to get the technology adopted and show how the stars can be introduced into the classroom to provide basic understanding and illustrate why the stars always rise and set in exactly the same place although the Sun and Moon rise and set at different points throughout the year. John will discuss about the problems of delivering autonomy on a mountain top 3000 km away giving a guided tour around a facility that remains the leading education system in the world and introduce you to a system that will deliver for you the wonders of the dark night sky at 8000 feet in Tenerife.

**Come along and listen to his views.**

*Biography:* John Baruch graduated in astrophysics at the University of London and gained a PhD whilst working at Leeds University. His career has been spent in scientific instrumentation, funded mainly by PPARC and EPSRC and their predecessors. He was always concerned to spin off the technologies delivered by blue sky research into commercial applications and ran the first Technology Transfer programmes in physics and astronomy. His research is currently dominated by spinning off the Robotic Telescope technology into a new International Institute to support e-laboratories delivering the whole of the science national curriculum where students will use real time data from operating companies to support their learning.

**ALL STUDENTS ARE WELCOME TO THIS FREE EVENT**

**VENUE: LECTURE THEATRE "JOHN STANLEY BELL", D FLOOR, RICHMOND BUILDING,  
UNIVERSITY OF BRADFORD, RICHMOND ROAD, BRADFORD BD7 1DP**

*FOOD AND DRINKS WILL PRECEDE LECTURE*

**6:30 PM FOR 7 PM**

**To register your attendance to this free event contact Dr. Crinela Pislaru on 01484 47 3843,  
fax on 01484 47 2413, or email: [c.pislaru@hud.ac.uk](mailto:c.pislaru@hud.ac.uk) with names of delegates.**