DEPARTMENT OF CHEMISTRY
OXFORD UNIVERSITY

PHYSICAL & THEORETICAL CHEMISTRY LABORATORY

THE HINSHELWOOD LECTURES 2016

Professor Ken A Dill

Director, Laufer Center for Physical & Quantitative Biology
Stony Brook University, USA

Statistical Physical Chemistry in Biology: Where Boltzmann meets Darwin

Will be presented in the form of six lectures on the following dates:

Lecture 1, Tuesday, 26 January - *The principles of protein folding*

Lecture 2, Thursday, 28 January - *New methods for computing protein structures and drug binding*

Lecture 3, Tuesday, 2 February - *The physics and modeling of water and solvation*

Lecture 4, Thursday, 4 February - *The principles of Maximum Entropy and Maximum Caliber in statistical physics*

Lecture 5, Tuesday, 9 February - *Understanding the cell through its proteome physics*

Lecture 6, Thursday, 11 February - *Proteins: the first nano-machines*

The Lectures, sponsored by Shell International, will be presented in the Physical & Theoretical Chemistry Laboratory in the Main Lecture Theatre at 2 pm. They will be of particular interest to researchers and senior undergraduates.