“The Joy and Pain of Structural Biology Research”

Monday December 18th, 2017

Pippard Lecture Theatre

Cavendish Laboratory, University of Cambridge

9:00 – 10:30 Registration and coffee/tea

10:30 Welcome

10:40 Professor Malcolm Longair, Cavendish Laboratory

University of Cambridge

“Decline and Regeneration: the Cavendish Laboratory 1932 to 1953 and the Development of Molecular Biology”

11:15 Professor Judith Howard, Department of Chemistry

Durham University

“Early diffraction experiment at low temperature - with reference to a PRS paper on unstable Pt species”

11:40 Sir Tom Blundell, Department of Biochemistry

University of Cambridge

"Joy and Pain in Nature and Science: Structural biology of DNA-PK and DNA Double-strand-break Repair"

12:15-1:30 Lunch

1:30 Professor Randy Read, Department of Haemotology

University of Cambridge

"The road to *ab initio* phasing by molecular replacement"

2:05 Dr. Pamela Williams, Astex Pharmaceuticals, Cambridge

“Crystal structure of human cytochrome P450 2C9 with bound warfarin”

2:40 Dr. Ben Bax, York Structural Biology Laboratory

“Structural studies in support of the development of new antibiotics targeting DNA gyrase and the development of oligonucleotide topoisomerase inhibitors (OTIs)”

3:15 – 4:00 Tea/coffee

4:00 Professor Janet Thornton, European Bioinformatics Institute, Hinxton

“Of Exploration and Errors - PROCHECK - an 'accidental' paper”

4:35 Dr. Richard Henderson, MRC Laboratory of Molecular Biology,

Cambridge

“The struggle to get high resolution phases for 2D crystals of bacteriorhodopsin - pain, joy, more pain, more joy”

5:10 Closing Remarks

5:15 Reception