

9th International Conference on Biology and Synchrotron Radiation

SUNDAY 12 August 2007 (Manchester Bridgewater Hall)

12 Aug Registration desk live in foyer area for delegates to collect badges and delegate book Foyer
Welcome reception at the Manchester Town Hall Town Hall

MONDAY 13 August 2007

0900 Opening Plenary: [Shige Yokoyama \(Japan\)](#) Structural Biology Revolution: Changing Face of Structural Genomics

1030 Parallel Sessions

Session 1 Structural Genomics/Proteomics

(Session organisers: [Tom Tewilliger](#) and [Harren Jhoti](#))

[Aled Edwards \(SGC\)](#)

[Andrzej Joachimiak \(MCSG\)](#)

[Stephen Burley \(SGX\)](#)

To be selected

Session 2 SR Spectroscopy (Circular Dichroism, Infra-Red, Spectro-microscopy)

(Session organisers: [Mikio Kataoka](#) and [Bonnie Wallace](#))

[Robert Janes \(SRCD\)](#)

[Paul Dumas \(IR\)](#)

[Laurence Barron \(Raman Optical Resonance\)](#)

to be selected from abstract

1230 Lunch in the Exhibition Hall

1400 Parallel Sessions

Session 3 Non-Crystalline Diffraction

(Session organisers: [Tom Irving](#) and [Gunter Grossmann](#))

[Shuji Akiyama](#) (SAXS Studies on Assembling and Disassembling Molecular Machines)

[Keiichi Namba](#) (bacterial flagella-fibre X-ray diffraction)

To be selected from abstracts

to be selected from abstract

Session 4 Combined SR techniques (XAFS with PX)

(Session organisers: [Richard Garratt](#) and [David Garner](#))

[Richard Strange \(UK\)](#)

[Peter Lay \(Australia\)](#) Three-dimensional structure determination using multiple-scattering analysis of XAFS: applications to metalloproteins and coordination chemistry

To be selected from abstracts

To be selected from abstracts

1600 Coffee/Tea

1630 Plenary: [So Iwata \(UK\)](#) Are membrane proteins still a special case?

19:00 Welcome dinner for all delegates at the Midland Hotel

TUESDAY 14 August 2007

0900 Plenary: [Malcolm Irving \(UK\)](#) Towards the understanding of muscle

1030 Parallel Sessions

Session 1 Developments in instrumentation: from photon delivery to detection

(Session organisers: [Sine Larsen](#) and [John Helliwell](#))

Andy Thompson (SOLEIL)
Mike Soltis (Stanford) (mini-microdiffractometer, sample changer, kappa goniometer, minispectrometer etc.)
Clemens Breese Shultze (Zurich) (Detectors)
to be selected from abstracts

Session 2 Membrane proteins

(Session organisers: [Johan Deisenhoffer](#) and [So Iwata](#))

R. Dutzler (Zurich) Chloride channel - used Br anomalous to identify ions
Par Nordlund - cobalt transporter
To be selected
To be selected from abstracts

1230 Lunch in the Exhibition Hall

1400 Parallel Sessions

Session 3 Metalloproteins

(Session organisers: [Samar Hasnain](#) and [Chris Schofield](#))

Albrecht Messerschmidt (Germany)
Jim Barber (Imperial) PSII.
Y. Shiro (RIKEN) Heme Systems.
To be selected from abstracts

Session 4 Imaging

(Session organisers: [Rob Lewis](#) and [Keith Hodgson](#))

[Stuart Hooper \(Monash\)](#) "Pioneering work in synchrotron imaging of the first breaths of newborn rabbits"

[Graham George](#) (Spectroscopic Imaging)

[Caroline Larabel \(ALS\)](#) 3D tomography of cells

[Ian Robinson \(UK\)](#)

1630 Plenary: [Venki Ramakrishnan \(UK\)](#) Ribosome and Protein-Nucleic acid complexes

1730-1900 **Posters with Nibbles/drinks**

19:00 Bridgewater Hall for a concert

WEDNESDAY 15 August 2007

0900 Plenary: [Dmitri Svergun \(EMBL, Germany\)](#) Structures of Proteins and their complexes in solution

1030 Parallel Sessions

Session 1 Multi-protein complexes

(Session organisers: [Soichi Wakatsuki](#) and [Louise Johnson](#))

Roger Williams (ESCRT complexes)
Elena Conti (Exosome complex)
Hanna Yuan (Taiwan) Structural and Functional Insight into Nucleases in Cell Defense
To be selected from abstracts

Session 2 SR Industrial Applications and structure based drug design

(Session organisers: [Andrew Wang](#) and [Richard Paupit](#))

[David Brown](#) (Pfizer)

[Ray Stevens](#) (Scripps) tbc

To be selected from abstracts

To be selected from abstracts

1230 Lunch in the Exhibition Hall

1400 Parallel Sessions

Session 3 Computational Biology

(Session organisers: [Randy Reed](#) and [Roger Fourme](#))

[Mike Sutcliffe](#) (MIB, Manchester)

[Bernie Brooks](#) (NIH)

To be selected

To be selected from abstracts

Session 4 New Biological Challenges

(Session organisers: [Andres Liljas](#) and [Zhie Rao](#))

[Steve Oliver](#) (tbc) on Yeast genome: Molecules to assemblies to system

To be selected from abstracts

To be selected from abstracts

16:30-17:30 Plenary: [Tom Blundell](#) From Structure to Drugs/vaccine

1730-1930 **Posters with Nibbles/drinks**

THURSDAY 16 August 2007

0900 Plenary: [David Stuart \(UK\)](#) Challenges of Structural Virology

1030 Parallel Sessions

Session 1 Hot topics

(Session organisers: [Tim Richmond](#) and [Louise Johnson](#))

Jim Naismith Wza, a new class of outer membrane protein
Zihe Rao (China) SARS virus proteins
to be selected from the abstract
to be selected from the abstract

Session 2 Radiation Damage: How to get the best from your sample?

(Session organisers: Colin Nave and Janos Hajdu)

Malcolm Howells (Principles of Radiation Damage in x-ray scattering, diffraction and imaging)

Elspeth Garman (Oxford) What is radiation damage limit

Jim Penner Hahn

To be selected from an abstract

1230 Lunch in the Exhibition Hall

1400 Recent Advancements

(Session organisers: Samar Hasnain and Louise Johnson)

B C Wang (USA) Remaining challenges in long wavelength phasing

Eric Girard (France) Biology at High pressures

15:00 Tea

1530 Plenary: Keith Hodgson (USA) **New Opportunities and Challenges: From First generation to fourth generation of accelerator-based photon sources**

1615 Plenary: Janos Hajdu (Sweden) **High Resolution Structure from a single molecule**

17:00 Special Plenary: Johann Deisenhofer (USA) **Biology & SR - Current, past & future**

17:45 CONCLUDING CEREMONY

18:30-22:30 GALA Dinner at Mere Golf club

FRIDAY 17 August 2007 (DIAMOND Oxfordshire)

Travel to Diamond and Tour of Diamond Light Source

1230 Lunch

Scientific presentations

1400 Louise Johnson (UK) **DIAMOND - Current status and latest results**

14-30 Roger Fourme (France) **SOLEIL – Current status**

15:00 to be decided from DIAMOND

15:20 to be decided from DIAMOND

15:40-17:00 Tour of the facilities

1700 **Departure**