

Third International Workshop on X-ray Damage to Biological Crystalline Samples

Venue: ESRF Auditorium

PROGRAMME

Thursday 13th November 2003

Chairman: Seán McSweeney (ESRF Grenoble)

09:00-09:10 Welcome.....**Sine Larsen** (ESRF Director of Research)

09:10-09:30 Introduction/Historical Perspective.....**Elsbeth Garman** (University of Oxford)

Session (a): Radiation Chemistry

09:30-10:00 **Chantal Houée-Levin** (LCP Orsay)

10:00-10:30 **Colin Nave** (CCLRC Daresbury Lab. Warrington)

10:30-11:00 *Coffee break*

Session (b): Beam Heating: Modelling and Verification

11:00-11:30 **Michael Kazmierczak** (University of Cincinnati)

Session (c): Temperature Dependence of Radiation Damage (He, Phase Transitions etc.)

11:30-12:00 **Martin Weik** (IBS Grenoble)

Session (d): Dose/Dose Rate Effects and Limits to Sample Life

12:00-12:30 **Hanna-Kristi Leiros** (ESRF Grenoble)

12:30-14:00 *Lunch*

Chairman: Raimond Ravelli (EMBL Grenoble)

Session (d): Dose/Dose Rate Effects and Limits to Sample Life (continued)

14:00-14:30 **Clemens Schulze-Briese** (SLS Villigen)

14:30-15:00 **Edgar Weckert** (HASYLAB Hamburg)

15:00-15:30 **Gerd Rosenbaum** (University of Georgia Athens)

15:30-16:00 *Tea break*

Session (e): Damage and Data Quality as a Function of Photon Energy

16:00-16:30 **James Murray** (University of Oxford)

16:30-17:00 **Manfred Weiss** (EMBL Hamburg)

17:00-17:30 **Ana Gonzalez** (SSRL Menlo Park)

18:00 *Cocktail and Informal Discussions*

19:30 *Workshop Dinner*

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Chairman: Gerd Rosenbaum (University of Georgia)

Session (f): Lipid/Membrane Biological Perspective

09:00-09:30 Martin Caffrey (The Ohio State University Columbus)

Session (g): Specific Sensitivity of Particular Crystals/Heavy Atoms to Damage

09:30-10:00 Sean McSweeney (ESRF Grenoble)

Session (h): Use of Free Radical Scavengers

10:00-10:30 Elspeth Garman (University of Oxford)

10:30-11:00 *Coffee break*

Session (i): Improved Software for Dealing with Radiation Damage

11:00-11:30 Zbyszek Otwinowski (UT South Western Medical Center Dallas)

11:30-12:00 Vincent Favre-Nicolin (CEA Grenoble)

12:00-12:30 Clemens Vornrhein (Global Phasing Ltd Cambridge)

12:30-14:00 *Lunch*

Chairman: Colin Nave (SRS Daresbury)

Session (j): Use of On and Off Line Spectrometry for Radiation Damage Studies

14:00-14:30 Dominique Bourgeois (IBS Grenoble)

Session (k): The Use of Radiation Damage for Biological Studies and/or Phasing

14:30-15:00 Raimond Ravelli (EMBL Grenoble)

15:00-15:30 Gunnar Berglund (Uppsala University)

15:30-16:00 *Tea break*

Session (l): Genome Stability and Radiation Damage

16:00-16:30 Peter O'Neill (MRC Didcot)

Chairmen: Seán McSweeney (ESRF Grenoble) and Elspeth Garman (University of Oxford)

Final Discussion