IUCr Workshop 3 Introduction to Small-Angle Scattering
23 August 2005
Florence, Italy
Chair. Jan Skov Pedersen

9:00-9:10 Jan Skov Pedersen, University of Aarhus, DK: Introduction

9:10-9:50 Alvise Benedetti, University of Venice, I: Introduction, basic theory (simple form factors, Porod, Guinier, Invariant) Indirect Fourier transformation and p(r) function

9:50-10:30 P. Thiyagarajan, Argonne National Lab, USA : X-rays versus neutrons, contrast variation, instrumentation and smearing effects. With examples.

10:30-11:00 Coffee break

11:00-11:45 Maxim Petoukhov; EMBL-Hamburg, Germany: Crystal structure based modellling and ab-initio methods in structural biology

11:45-12:30 P. Fratzl, Max Planck Institute of Colloids and Interfaces, Department of Biomaterials, Potsdam, D: Applications in material science, including scanning SAXS

12:30-13:30 Lunch break

13:30-14:08 Bart Goderis; University of Leuven, B: Bulk semicrystalline polymers

14:08-14:45 J. Skov Pedersen, University of Aarhus, DK: Colloids and polymers in solution

14:45-15:15 Coffee break

15:15-15:53 A. Allen, NIST, Maryland, USA: Ultra small angle scattering and applications

15:53-16:30 Peter Laggner, Institute of Biophysics and X-ray Structure Research, Graz, A: Industrial applications to mesoporous, solid materials.

16:30 Concluding remarks