

Wednesday, 9 august 2006 - morning

08.30-09.30	AULA P. DE SOMER	AULA MAGNA
	P9 Sine Larsen (European Synchrotron Radiation Facility, Grenoble, France) Progress in the application of synchrotron radiation in chemistry and biology Chair: Harry Reynaers	P10 Ludwik Dobrzynski (University of Bialystok, Bialystok, and The Soltan Institute for Nuclear Studies, Otwock-Świerk, Poland) Charge, spin and momentum densities: different faces of this same nature Chair: Heinz Graafsma
09.30-10.00	COFFEE BREAK	
10.00-12.00	MAGRITTE ROOM	DELVAUX ROOM
	<i>MS5: High quality diffraction data and high quality structural information</i> Chair: Victor Lamzin, Co-chair: Jean-Paul Declercq	<i>MS7a: Hot structures in protein crystallography</i> Chair: Maria Carrondo, Co-chair: Johan Wouters
	10h00 m5.o1 Anastassios C. Papageorgiou (University of Turku and Åbo Akademi University, Turku, Finland) Structural basis of enzyme adaptation to alkaline pH	10h00 m7.o1 Daniel Schlieper (MRC Laboratory of Molecular Biology, Cambridge, UK/ Marie Curie Research Institute, The Chart, UK) Bacterial tubulin BtubA/B: A folding mystery
	10h30 m5.o2 Federico Ruiz CNIO, Madrid, Spain) Ultra high resolution X-Ray and neutron diffraction studies of fully deuterated Aldose Reductase show a catalytic proton pathway	10h30 m7.o2 Vitaly. I. Gordeliy (IBI-2, Juelich, Germany/ MPI of Molecular Physiology, Dortmund, Germany/ CBPCSS of MIPT, Moscow, Russia) Molecular mechanism of a signal transduction in cells
	11h00 m5.o3 Robert E. Thorne (Cornell University/Mitigen, Ithaca NY USA) New approaches to cryo- and room-temperature crystallography	11h00 m7.o3 Eric Chabrière (CNRS-Université Henri Poincaré, Vandoeuvre-lès-Nancy, France) Serendipitous discovery of a human phosphate binding apolipoprotein
	11h20 m5.o4 Guillaume Pompidor (Institut de Biologie Structurale, Grenoble, France) A new lanthanide complex for protein structure determination using anomalous diffraction	11h20 m7.o4 Guido Capitani (Institute of Biochemistry, University of Zurich, Switzerland) Chaperone-subunit complex recognition by the type 1 pilus assembly platform FimD
	11h40 m5.o5 Ina Dix (University of Göttingen, Göttingen, Germany) The EU BIOXHIT Standard Test Crystal - Verifying Se-MAD Beamlines	11h40 m7.o5 Casper Elo Christensen (Copenhagen University, Copenhagen, Denmark) The structure of the human mitochondrial β -ketoacyl-ACP synthase

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10.00-12.00	ENSOR ROOM	VAN EYCK ROOM
	<i>MS17: Structures by electron crystallography</i> Chair: Sven Hovmoller, Co-chair: Chris Gilmore	<i>MS20: Topological aspects of inorganic crystal structures</i> Chair: Abdelmalek Thalal, Co-chair: Sergej Krivovichev
	10h00 m17.o1 Vidar Hansen (University of Stavanger, Norway) Structure determination of nanosized, semi-coherent Al-Mg-Zn precipitates by precession electron diffraction and synchrotron X-ray diffraction	10h00 m20.o1 Elisabeth Gavilan (University of Rennes, Rennes, France) New topologies of metal based croconates: Syntheses, crystal structures and thermal behaviours
	10h30 m17.o2 Stavros Nicolopoulos (Universidad Politecnica de Valencia, Valencia, Spain/ NANOMEGAS, Brussels, Belgium) How to resolve ab-initio nanostructures by electron diffraction: applications of beam precession in transmission electron microscopy	10h30 m20.o2 Hubert Huppertz (Ludwig-Maximilians-Universität München, Germany) Topological comparison between high-pressure borates and ambient-pressure silicates
	11h00 m17.o3 Wim Tirry (EMAT, Universiteit Antwerpen, Antwerpen, Belgium) Unit cell refinement of nano-sized Ni_4Ti_3 precipitates by quantitative electron diffraction	11h00 m20.o3 Herta Effenberger (Universität Wien, Wien, Austria) Hydrogen bonds controlling the structure type
	11h20 m17.o4 Zhanbing He (Stockholm University, Stockholm, Sweden) Structure determination of the hexagonal μ' -(Al,Si) ₄ Cr by the strong reflections approach	11h20 m20.o4 Stephen Hyde (Australian National University, ACT, Australia) Knotted frameworks: How many distinct ways can a framework topology be realised?
	11h40 m17.o5 Holger Klein (University Joseph Fourier, Grenoble, France) The structure of pseudo-cubic Mn_2O_3 solved by electron crystallography	11h40 m20.o5 Massimo Nespolo (Université Henri Poincaré, Nancy, France) Topological aspects of cell twins

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10.00-12.00	BREUGHEL ROOM	RUBENS ROOM
	<i>MS28: Supramolecular compounds and assemblies</i> Chair: Petra Bombicz, Co-chair: Jean-Marc Planeix	<i>MS46: Multiferroics</i> Chair: Laurent Chapon, Co-chair: Raphael Haumont
	10h00 m28.o1 Christer B. Aakeröy (Kansas State University, Manhattan, KS, U.S.A) Constructing co-crystals with molecular sense and supramolecular sensibility	10h00 m46.o1 Michaël Josse (ICMCB, Pessac, France) Crystal-chemistry design of new single-phase multiferroics
	10h30 m28.o2 Mino R. Caira (University of Cape Town, South Africa) Polymorphism and isostructurality of cyclodextrins and their inclusion complexes	10h30 m46.o2 Dimitri N. Argyriou (Hahn-Meitner-Institut, Berlin, Germany) Complex structure and magnetism in perovskite multiferroics
	11h00 m28.o3 Alajos Kálmán (Institute of Structural Chemistry, Hungarian Academy of Sciences, Budapest, Hungary) Past and present: the meaning of morphotropism	11h00 m46.o3 Kamel Taïbi (Faculté de Chimie, U.S.T.H.B., Alger, Algeria) Relaxor behaviour in the system $(1-x) \text{Ba}_{1-x}\text{Bi}_{2x/3}\text{TiO}_3 + x \text{Ba}_{1-y}\text{Y}_{2y/3}\text{TiO}_3$
	11h20 m28.o4 Gaelle Ramon (UCT, South Africa) Inclusion compounds from a Diol Host	11h20 m46.o4 Gwilherm Nénert (University of Groningen, Groningen, The Netherlands) Proper ferroelectric transition in the multiferroic YMnO_3
	11h40 m28.o5 Yves Boland (Université catholique de Louvain, Louvain-la-Neuve, Belgium) Structures of iron(II) and copper(II) coordination polymers with α,ω -bis(tetrazol-1-yl)di(ethylene glycol)	11h40 m46.o5 Christophe J.M. Daumont (University of Groningen, Groningen, The Netherlands) Strain engineering of multiferroic thin films
12.00-13.30	LUNCH BREAK	

Wednesday, 9 august 2006 - afternoon

13.30-15.30	MAGRITTE ROOM	DELVAUX ROOM
	<i>MS6: Macromolecular assemblies.</i> Chair: Markus Wahl, Co-chair: Dominique Maes	<i>MS16: Local structure determination by electron imaging.</i> Chair: Dirk van Dyck, Co-chair: Hannes Lichte
	13h30 m6.o1 Christoph W. Müller (European Molecular Biology Laboratory (EMBL),Grenoble, France) Structural studies of the nucleosome remodeling factor CHRAC	13h30 m16.o1 Sandra Van Aert (University of Antwerp, Antwerp, Belgium) Quantitative characterization of aperiodic nanostructures: the advantage of using electrons
	14h00 m6.o2 Jan Löwe (MRC Laboratory of Molecular Biology, Cambridge, UK) Double-stranded DNA translocation: structure and function of hexameric FtsK	14h00 m16.o2 Michael Lehmann (University of Dresden, Dresden, Germany) Cs-correction and electron holography: exciting TEM-methods for solving nanoquestions
	14h30 m6.o3 Mark J. van Raaij (Universidad de Santiago de Compostela, Santiago de Compostela, Spain) Structures of viral receptor-binding fibres	14h30 m16.o3 Nina L. Smirnova (Moscow State University, Moscow, Russia) Organic and inorganic assemblies
	14h50 m6.o4 Callum Smits (University of Otago, New Zealand) Structural characterisation of the Bcl-2 protein A1 bound to BH3-domain peptides	14h50 m16.o4 Kiejun Lee (Sogang University, Seoul, Korea) Phase transition of copper (II) phthalocyanine thin films characterized by a near-field microwave microprobe
	15h10 m6.o5 Hannes Simader (EMBL Heidelberg, Germany) Structural basis of yeast aminoacyl-tRNA synthetase complex formation	15h10 m16.o5 Wolfgang Neumann (Humboldt University of Berlin, Berlin, Germany) Quantitative TEM analysis of structure and chemical composition of Si _{1-x} Gex islands

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13.30-15.30	ENSOR ROOM	VAN EYCK ROOM
	<i>MS22: Industrial mineralogy.</i> Chair: Herbert Poellmann, Co-chair: Jan Elsen	<i>MS29: Advanced methods for computer simulation of molecular crystals</i> Chair: Graeme Day, Co-chair: Davide Viterbo
	13h30 m22.o1 George E. Christidis (Technical University of Crete, Chania, Greece) Layer charge of smectites: linking crystal structure with physical properties	13h30 m29.o1 Panagiotis G. Karamertzanis (University College London, London, UK) Energy minimisation of crystal structures containing flexible molecules
	14h00 m22.o2 Peter Stemmermann (Institute for Technical Chemistry, Forschungszentrum Karlsruhe, Germany) Application of synchrotron radiation in cement mineralogy	14h00 m29.o2 Bartolomeo Civalleri (University of Torino, Italy) Ab-initio quantum-mechanical investigation of molecular crystals
	14h30 m22.o3 Gioacchino Tempesta (Università di Bari, Italia) Structural defects and polytypism in moissanite and synthetic SiC crystals	14h30 m29.o3 Natalia Panina (Radboud University, Nijmegen, The Netherlands) Crystal structure prediction of organic pigments
	14h50 m22.o4 Moreton Moore (Royal Holloway University of London, UK) Cubic growth of natural diamond	14h50 m29.o4 Andrew G. Beasley (Australian National University, Canberra, ACT, Australia) The influence of disorder on polymorphism
	15h10 m22.o5 Thomas Kühn (Martin-Luther-University Halle-Wittenberg, Germany) Intercalation of sulphonates in the lamellar structure of Zn-Al-NO ₃ ⁻ layered double hydroxides precursor phases	15h10 m29.o5 Jürg Hauser (University of Berne, Switzerland) Analysing stacking disorder with a genetic algorithm

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13.30-15.30	BREUGHEL ROOM	RUBENS ROOM
	<i>MS32: Advances in computational macromolecular crystallography</i> Chair: Alexandre Urzhumtsev, Co-chair: Lieven Buts	<i>MS35: X-ray optics, guides focussing</i> Chair: Bruno Lengeler, Co-chair: Mikhail Kovalchuk
	13h30 m32.o1 Evgeny Krissinel (European Bioinformatics Institute, Hinxton, United Kingdom) Protein crystallography as a source of data on protein quaternary structures	13h30 m35.o1 Alexander E. Blagov (Shubnikov Institute of Crystallography, Russian Academy of Sciences, Moscow, Russia) Possibilities of controlling an X-ray beam with a crystal subjected to ultrasonic vibrations
	14h00 m32.o2 Paul D. Adams (Lawrence Berkeley Laboratory, CA USA) Automated structure determination with PHENIX	14h00 m35.o2 Peter Cloetens (ESRF, Grenoble, France) Kirkpatrick-Baez mirrors used in high resolution x-ray microscopy, tomography and fluorescence analysis
	14h30 m32.o3 Jan Ondráček (Institute of Molecular Genetics, Prague, Czech Republic) Indium(III) complexes within the protein crystal after HipHop Refinement	14h30 m35.o3 Christian Schroer (HASYLAB at DESY, Hamburg, Germany) Hard X-ray nanoprobes with refractive X-ray lenses
	14h50 m32.o4 Rocco Caliandro (Institute of Crystallography - CNR, Bari, Italy) The Patterson deconvolution method for the ab-initio structure solution of large proteins	14h50 m35.o4 Siranush Bezirganyan (Yerevan State Medical University, Yerevan, Armenia) X-rays guided by linearly graded SiGe layer grown on relaxed SiGe/Si structure
	15h10 m32.o5 Kevin Cowtan (University of York, UK) The 'Buccaneer' software for automated protein chain tracing	15h10 m35.o5 Jürgen Graf (Incoatec GmbH, Geesthacht, Germany) Multilayer optics for high brightness X-ray sources
17.00-18.00	AULA P. DE SOMER	AULA MAGNA
	P11 Dusan Turk (Josef Stefan Institute, Ljubljana, Slovenia) Structural biology of cysteine cathepsins Chair: Adrian Goldman	P12 Beatrice Noheda (University of Groningen, The Netherlands) Bridging phases in high-response piezoelectric materials. Chair: Pam Thomas