

MICROSYMPOSIA

	Seattle 1996 / 102 microsytosia	Glasgow 1999 / 97 microsytosia	Geneva 2002 / 95 microsytosia
Aperiodic crystals	9 (8.8%) + 1 shared	8 (8.2%) + 1 shared	6 (6.3%) + 1 shared
	<ol style="list-style-type: none"> Advanced Ceramics and Composites Non Crystalline Systems Aperiodic Structures and Incommensurate Phases Pore Framework Structures Local Order and Defect Scattering in Crystals Phase Transitions I Phase Transitions II Synthetic Polymers Non Periodic And Disordered Polymers 	<ol style="list-style-type: none"> Ferrioic Structures V.Wadhawan, Y.Ishibashi Perovskite Materials P.Woodward, E.Antipov Aperiodic and Incommensurate Structure I S.Van Smaalen, W.Paciorek Perovskite and Related Materials J.Jorgensen, P.Attfield Aperiodic and Incommensurate Structure II T.Janssen, G.Chapius Symmetry V.Kopsky, E.Koch Advances in Liquid Structure Determination M.A.Ricci, A.K.Soper Short Range Order and Diffuse Scattering H.Boysen, J.L.Finney 	<ol style="list-style-type: none"> Diffraction and Symmetry Aspects of Aperiodic Crystals M.Ohmasa, M. De Bossieu Polymers I.Hamley, T.Waigh Diffraction by Non-Periodic Structures G.Chapuis, T.Janssen Amorphous Materials and Glasses V.Petkov, P.Lamparter Diffuse Scattering T.R.Welberry, F.Frey Dynamics and Mechanism of Structural Phase Transitions M.Glazer, J.C.Toledano
Biological Macromolecules	24 (23.5 %) + 1 shared	17 (17.5%) + 6 shared	21 (22.1%) + 4 shared
	<ol style="list-style-type: none"> Macromoleculer Cryo Crystallography Detectors and Data Processing I:Macromoleculer Combined Cryo Electron Microscopy and X-Ray Diffraction of Macromecules Laue\Time Resolved Macromoleculer Crystallograp Enzymes Metalloenzymes Membrane Proteins I:Workshop On Methods Membrane Proteins II Nucleic Acids Protein-DNA Protein-RNA Hot Macromoleculer Structures I Hot Macromoleculer Structures II Macromoleculer Assemblies Viruses Receptors\Signal Transduction Protein-Carbohydrate Structures Drug Design II: Macromoleculer Based Muscle and Motor Proteins Protein Design and Engineering Immune System Protein Folding and Extremophiles Analysis and Stuctures of Macromolecules Fiber Diffraction of Biological Polymers 	<ol style="list-style-type: none"> Macromoleculer Machines and Organelles A.Yonath, A.Liljas Motor Proteins and Muscles K.Wakabayashi, A.Houdusse Membrane Protein and Transmembrane Signalling S.Buchanan, S.R.Sprang Structural Enzymolgy and Unusual Chemistry W.H.E.Saenger, G.Oliva Structural Motifs and Multidomain Proteins O.Herzberg, M.Safro Protein-Nucleic Acid Interactions S.Burley, S.Neidle Crystallography and NMR of RNA D.Moras, D.Lilley Endocytosis and Exocytosis A.T.Brunger, T.Kirchhausen Molecular Basis of Disease and Toxicity W.Hol, S.Muchmore The Immune System and Designed Enzymes D.Fremont, R.Stevens Viruses and Viral Proteins Y.Jones, W.Hendrickson Protein-Carbohydrate Interactions and Cell Adhesion F.A.Quiocho, P.Van Roey Cellular and Molecular Regulation B.DeVos, E.Goldsmith Hot Macromoleculer Structures I N.Isaacs, J.L.Martin Time-Resolved Diffraction and Protein Dynamics I.Schlichting, J.Hellwiel Hot Macromoleculer Structures II C.I.Branden, M.Bolognesi Data Accuracy and Detectors W.Minor, H.Graafsma 	<ol style="list-style-type: none"> Hot Structures I E.Baker, A.Mattevi Combining X-ray Crystallography and Electron Microscopy H.Saibil, A.Engel Viruses and Anti-Viral Strategy P.Colman, M.Murthy Enzyme Evolution and Enzyme Mechanism M.James, H.Holden Protein-Protein and Protein-Nucleic Acid Interactions S.Burley, K.Morikawa Kinetic Macromoleculer Crystallography R.Sweet, D.Burgeois Protein and Immune System I.Wilson, J.Varghese Nanomachines Macromoleculer Assemblies A.Yonath, T.Tsukiarra Crystal Structures of DNA and RNA E.Westhof, W.Hunter Structural Genomics in Quest of Function O.Herzberg, S.Yokoyama Nuclear Hormone Receptors D.Moras, H.Einspahr Structure and Function of Membrane Proteins S.Iwata, N.Adir Atomic Force Microscopy and Single Molecule Analyses of Macromoleculer I.Sagi, A. McPherson Protein Transport S.Wakatsuki, D.Fass Structures in Cell Cycle Regulation J.Endicott, N.McDonald Signal Trasduction J.Hurley, J.Cherfils Hot Structures II B.Dijkstra, Y.Jones MAD, SAD and Difficult Phasing R.Read, A.Thompson Structural Studies in Neurobiology J.Sussman, Y.Bourne Metalloproteins by Crystallography and Other Methods D.Ohlendorf, M.Carrondo Conformational Changes and Allostery J.Remington, M.Cyglar

Charge, spin, momentum density		11 (10.7%)		3 (3.0%) + 3 shared		7 (7.2%) + 5 shared
	1	Multipole and Maximum Entropy Refinement	1	Chemical Insights from Charge Density Studies M.Spackman , T.Koritsanszky	1	X-Ray and Neutron Magnetic Crystallography F.Tasset , M.Costa
	2	Comparison of Theory with Experiment	2	Dynamic Aspects of Molecular Crystals C.K.Prout , C.P.Brock	2	Molecular and Crystal Properties from Charge and Spin Densities C.Gatti , M.J.Cooper
	3	New Information on Crystal from Electron Diffractor	3	Magnetic and Inelastic Scattering M.J.Cooper , G.H.Lander	3	Molecular Magnets A.Powell , J.Miller
	4	Magnetization and Momentum Density			4	Solid State Reactions T.Borowiak , V.Belsky
	5	High Tc Superconducting Materials			5	X-Ray Diffraction Topography: Use of Coherent Beams J.Baruchel , J.Gronkowski
	6	Giant Magnetoresistive Materials			6	Microtomography and High Resolution Imaging: from Absorption to Phase S.Wilkins , A.Snigirev
	7	Optic\Electronic Materials			7	Resonant Scattering J.P.Attfield , H.Ehrenberg
	8	Analysis of Atomic Displacement Parameters				
	9	Diffraction Physics II: Magnetic Structures with Neutron and Synchrotron Radiation				
	10	Group Theory and Topology				
11	Critical Point					
Powder diffraction		1(0.9%) + 2 shared		6 (0.9%) + 4 shared (6.1%)		4 (4.1%) + 3 shared
	1	Powder Diffraction	1	Challenging Rietveld Refinements R.B.Von Dreele , D.Louer	1	High Energy X-Ray Powder Diffraction A.Wilkinson , R.Dinnebier
			2	Industrial On-Line X-Ray Analysis M.Bellotto , D.Taylor	2	Application of Powder Diffraction to Pharmaceuticals G.Stephenson , J.Tremayne
			3	<i>In situ</i> Studies Using Powder Diffraction G.Artioli , P.Barnes	3	Nanomaterials L.Brammer , R.Tenne
			4	Applications of Line Broadening D.Balzar , R.Delhez	4	Non-Ambient Powder Diffraction and Kinetics Studies J.Evans , P.Norby
			5	Non-Structural Applications of Rietveld Analysis D.K.Smith , I.Madsen		
Small angle scattering		5 (4.9%)		2 (2.0%) + 1 shared		4 (4.1%) + 1 shared
	1	Tools and Techniques	1	Amorphous Materials: Small Angle Scattering G.Kostorz , J.S.Pedersen	1	Analysis of Crystallite Size Microstrain and Macrostress E.Mitte-meijer , I.C.Noyan
	2	Applications	2	Catalysts and Surfaces L.Leiserowitz , R.O.Gould	2	NanoStructural Characterization Using Small-Angle Scattering J.S.Pedersen , I.L.Torriani
	3	Surface and Interface Crystallography			3	Soft Matter Studies by Small-Angle Scattering T.Zemb , P.Schurtenberger
	4	Thin Films and Multilayers			4	Structure of 2D Crystals at the Air-Water Interface L.Leiserowitz , J.Als-Nielsen
5	X-Ray and Neutron Reflectivity					

Structural chemistry	13 (12.7%) + 1 shared	8 (8.2%) + 2 shared	11(11.3%) + 5+G167 shared
1 Detectors and Data Processing II	1 Difficult Structures D.J.Watkin, P.T.Beurkens	1 Metal Complexes and Catalysis G.C.Diaz de Delgado, F.J.Lahoz	
2 Difficult Crystals:Data Collection, Reduction and Refinement	2 Structure-Property Relationships in Chiral Compounds K.Stadnicka, C.C.Wilson	2 Drug Design - Small Molecule Based C.Chidester, T.Hambley	
3 Drug Design I: Small Molecules Based	3 Polymorphism and Isomorphism J.Bernstein, J.Anwar	3 Structure Property Relationship in Molecular Crystals C.C.Wilson, J.A.K.Howard	
4 Organic Compounds	4 Crystal Engineering G.R.Desiraju, R.D.Rogers/M.Zaworotko	4 Coordination Chemistry G.Punte, D.Levendis	
5 Exotic Molecules: Organic	5 Drug Discovery and Design P.Fitzgerald, P.Colman	5 New X-ray Sources and Optics A.Freund, T.Ishikawa	
6 Organometallic Chemistry and Coordination Compound	6 Intermolecular Interactions K.Suwinska, J.C.A.Boeyens	6 Horizons in Hydrogen Bond Research T.Steiner, A.Nangia	
7 Hot Structures	7 Pseudo-symmetry and Twinning H.D.Flack, A.J.Blake	7 Structure-Based Drug Design C.Abad-Zapatero, H.I.Jiang	
8 Fullerenes	8 Real Time <i>in situ</i> Reaction Chemistry Y.Ohashi, R.Boese	8 Twins, Disorders and other Demons D.Schwarzenbach, J. Flippen-Andersen	
9 Molecular Recognition		9 Detectors Y.Amemya, H.Graafsma	
10 Chemical Crystallography of the Future: Open Commission		10 Polymorphism and Isomorphism P.Erk, V.R.Pedireddi	
11 Intermolecular Interactions		11 Crystal Engineering - Supramolecular Assemblies I.Goldberg, J.Lipkowski	
12 Chiral Compound of Industrial Interest			
13 Dynamic Properties in Molecular Crystals			
Synchrotron radiation	3 (2.9%)	2 (2.0%) + 5 shared	1 (1.0%) + 3 shared
1 Synchrotron Radiation I: Instrumentation and Techniques	1 X-Ray Optics A.Authier, K.Lal	1 X-Ray Microdiffraction N.Tamura, H.Padmores	
2 Synchrotron Radiation II: Macromolecules	2 Topography H.Klapper, J.W.Hu		
3 Synchrotron Radiation III: Application Time Resolved Micro-crystal High Energy			
High pressure	6 (5.8%)	6 (6.1%) + 0 shared	3 (3.1%) + 1 shared
1 Element and Simple Compounds	1 High Pressure Structures and Phase Transitions O.Shimomura, M.I.McMahon	1 Extreme Pressure and Temperatures R.Hemley, G.Figuet	
2 Microbeam Techniques	2 Structures and Techniques at Extreme Pressure and Temperatur R.J.Hemley, A.K.Singh	2 Novel Materials and Physical Properties at High Pressure P.McMillan, Y.Fujii	
3 Molecules, Ices and Minerals	3 Physical Properties and Novel Materials Under High Pressure I.N.Goncharenko, Y.Fujii	3 Structure and Phase Transition at High Pressure J.Loveday, S.Desgreniers	
4 Pressure Cells and Sample Conditions	4 High Pressure Data Acquisition and Analysis M.Kunz, W.F.Kuhs		
5 New Frontiers	5 High Pressure Studies of Biological and Other Soft Materials R.Winter, S.M.Gruner		
6 Data Collection and Analysis	6 New Frontiers in High Pressure Crystallography J.B.Parise, D.Hausermann		

Electron diffraction	2 (1.9%) + 1 shared	2 (2.0%) + 2 shared	6 (6.3%) + 1 shared
1 Electron Diffraction from Surfaces: LEED, RMEED, PED, etc	1 Structure from Pictures: Direct Macromolecular Structure Determination by Electron Microscopy <i>H.Saibil, R.Henderson</i>	1 Holography and X-ray Microscopy <i>J.Miao, G.Schneider</i>	
2 Strain and Stress Measurements	2 Quantitative Electron Diffraction and Microscopy <i>D.Van Dick, J.Gjonnes</i>	2 Electron Diffraction <i>H.Zanderbergen, Fang-Hua Li</i>	
		3 Free Electron Lasers and Other Pulsed Sources <i>J.Kitamura, J.Schneider</i>	
		4 Electron Channeling Effects on X-ray and EELS Spectra: Alchemi <i>J.C.H.Spence, M.Terauchi</i>	
		5 High Resolution Electron Microscopy <i>D.Van Dyck, Y.Matsui</i>	
Inorganic and mineral structures	1 (0.9%) + 1 shared	5 (5.1%) + 3 shared	5 (5.2%) + 0 shared
1 Inorganic and Mineral Compounds	1 Physical Properties and Structural Relationships <i>M.Catti, P.Paufler</i>	1 Magnetoresistance Materials <i>C.Miravittles, J.Rodriguez-Carvajal</i>	
	2 Crystallography and Geosciences <i>E.Salje, S.Ghose</i>	2 Mineralogical Crystallography <i>D.Y. Pushcharovsky, M. Nespolo</i>	
	3 Molecular Magnets <i>O.Kahn, L.K.Thompson</i>	3 Zeolite and Microporous Materials <i>L.McCusker, O.Terasaki</i>	
	4 Microporous Materials <i>H.Van Koningsveld, H.Gies</i>	4 Superconductors <i>C.Bourgeroi-Chaillout, M.Alario-Franco</i>	
	5 Opto-Electronic Materials <i>L.Bohaty, G.Marnier</i>	5 Solid State Spectroscopy <i>A.Bansil, R.Wappling</i>	
Neutron scattering	4 (3.9%)	4 (4.1 %) + 0 shared	1 (1.0%) + 3 shared
1 Neutron Scattering I: Applications	1 Neutron Studies of Stress/Strain <i>T.Holden, M.Hutchings</i>	1 Advanced Materials Science and Neutron Scattering <i>B.Toby, A.Hewat</i>	
2 Neutron Scattering II: Instrumentation and Technique	2 X-Ray and Neutron Complementarity <i>B.Lebeck, J.W.White</i>		
3 Advanced Battery and Fuel Cell Materials	3 Advanced Battery and Fuel Cell Materials <i>P.Bruce, T.Kamiyama</i>		
4 Diffraction Physics I: Neutron and X-Ray Optics	4 Interfacial Structures <i>S.Satija, J.Penfold</i>		
Crystallographic teaching	2 (1.9%)	1 (1.0%) + 0 shared	1 (1.0%) + 0 shared
1 Teaching Crystallography	1 Teaching Crystallography <i>K.Crennel, K.El Sayed</i>	1 Teaching Crystallography <i>K.El-Sayed, C.P.Brock</i>	
2 Years of X-Ray			
XAFS	1 shared (0%)	2 (2.0%) + 0 shared	0 (0.0%) + 2 shared
	1 Metalloproteins, Electron Transport and EXAFS <i>J.M.Guss, B.G.M.Hedman</i>		
	2 Combined Powder Diffraction, EXAFS and DAFS <i>G.N.Greaves, G.Shankar</i>		
Crystallographic nomenclature	0.0%	0.0%	0.0%

Crystal growth and characterization material	4 (3.9%)		6 (6.1%) + 2 shared	3 (3.1%) + 0 shared
1 Macromolecular crystallization Workshop		1 Nanomaterials R.Nesper, O.Nitto		1 Preparation of Crystals for Pharmaceutical Applications: High-throughput and Combinatorial Techniques C.Lehmann, C.Kidd
2 Fundamentals		2 Polymorphism in Industry N.Shankland, W. DeCamp		2 In Situ Monitoring of Crystal Growth Processes N.Blagden, L.G.Kuzimina
3 Methods-Materials		3 New Frontiers in Macromolecular Crystallisation F.Snell, N.Chayen		3 Crystal Growth of Soluble and Membrane Macromolecules G.Gilliland, E.Landau
4 Controlling and Predicting Crystal Morphology		4 Why Low Resolution? Methods and Outcomes A.Podjamy, V.Lunin		
		5 Growth of Mesoscopic Crystals Nai-Ben Ming, Y.Arakawa		
		6 Bulk Crystal Growth and Surface Phenomena I.Smolsky, M.Muehlberg		
Crystallographic computing	13 (12.7%)		9 (9.2%) + 4 shared	5 (5.2%) + 8 shared
1 Direct Methods of Phase Determination		1 30 Years of Rietveld Refinement R.Hill, A.W.Hewat		1 Automation of Phasing T.Terwilliger, V.Lanzin
2 MAD and MIR Macromolecular Phasing		2 Optimisation Methods K.Shankland, R.Glen		2 New Developments in Direct Methods and Maximum Entropy I C.Giacovazzo, M.Takata
3 Structure Determination Using Powder Data		3 Bio-information and Databases S.Fortier, S.Bryant		3 Structure Validation: Small, Large and In-Between A.L.Spek, C.Haltiwanger
4 Macromolecular <i>Ab Initio</i> Phasing		4 Prediction, Docking and Pattern Recognition J.Thornton, M.Eisenstein		4 Databases H.Berman, J.Rodgers
5 The Internet		5 Structure Solution from Powder Data: Molecular Compounds W.I.F.David, R.Dinnebier		5 New Developments in Visualization of Macromolecules A.Olson, G.Vrend
6 General Advances and Application		6 <i>Ab Initio</i> and Molecular Replacement Phasing Methods J.Navaza, G.Bricogne		
7 Macromolecular Map Fitting and Modification		7 Absorption Corrections M.M.Woolfson, A.L.Spek		
8 Macromolecular Refinement/Water/High Resolution Structures		8 The MAD Method C.Ogata, A.Thompson		
9 Macromolecular Homology Modelling, Structural Families and Docking		9 <i>Ab Initio</i> Structure Prediction C.R.A.Catlow, P.Verwer		
10 Materials Research				
11 Small Molecule				
12 Inorganic, Powder, Polymer, Other				
13 25 Years of PDB				

Shared Topics

	4 (3.9%)	16 (16.4%)	18 (18.9%)
1	Techniques, Real Time <i>in situ</i> Reaction Chemistry	1 Giant Magneto Resistance Materials <i>F.Tasset, A.Balagurov</i>	1 Liquids and Amorphous Structures at High Pressure <i>C.Benmore, O.Shimomura</i>
	Aperiodic Crystal, Powder diffraction	Aperiodic Crystal, Charge, spin, momentum density	Aperiodic Crystal, High Pressure
2	Metalloproteins X-Ray and EXAFS Studies	2 Preservation and Decay at Cryo-Temperatures <i>D.Theil, E.Garman</i>	2 Macromolecular Applications of Neutron Scattering and Neutron Sources <i>J.Zaccai, N.Niimura</i>
	Biological Macromol., XAFS	Biological Macromol., Synchrotron radiation	Biological Macromol., Neutron Scattering
3	Solid State Reactions: Structural Thermodynamics and Kinetic Aspects	3 Engineering Macromolecules for Crystallization <i>K.Nagai, Graigi</i>	3 The Role of Bioinformatics in Structural Genomics <i>J.Moult, J.Thornton</i>
	Powder Diffraction, Structural chemistry	Biological Macromol., Crystal growth	Biological Macromol., Cryst. Computing
4	Characterization of Defects, Microstructure and Texture	4 Large Unit Cells: Sources, Detectors and Data <i>S.Ealick, A.Leslie</i>	4 High Throughput Innovations in Structural Genomics <i>U.Heinemann, J.Norvell</i>
	Inorganic and min. struc., Electron Diffraction	Biological Macromol., Synchrotron radiation	Biological Macromol., Synchrotron radiation
		5 Problematics in Macromolecular Structure II: Fitting and Refinement <i>E.Dodson, T.A.Jones</i>	5 Fundamental and Applied Aspects of Cryocrystallography & Radiation Damage (in memory of J.Kroon) <i>P.Gros, H.Hope</i>
		Biological Macromol., Cryst. Computing	Biological Macromol., Synchrotron radiation
		6 Macromolecules at High Resolution: Refinement and Validation <i>K.S.Wilson, G.J.Kleywegt</i>	6 Quantum Crystallography: Electronic Correlation and Bonding <i>G.Loupias, S.Mannimen</i>
		Biological Macromol., Synchrotron radiation	Charge, spin, momentum density, Cryst. Computing
		7 Synchrotrons and Charge Density Analysis <i>F.K.Larsen, H.P.Weber</i>	7 X-ray and Electron Standing Wave Methods <i>D.P.Woodruff, I.Vartanyants</i>
		Synchrotron radiation, Charge, spin, momentum density	Charge, spin, momentum density, Electron Diffraction
		8 Strong Closed Shell Interactions in Crystals <i>A.Vegas, P.Pyykko</i>	8 New Developments in Direct Methods and Maximum Entropy II <i>C.Gilmore, S.L.Chang</i>
		Charge, spin, momentum density, Structural Chemistry	Charge, spin, momentum density, Cryst. Computing
		9 Micro-Structures and Texture of Real Materials <i>F.Frey, S.Billinge</i>	9 Low Temperature Crystallography; Methodology and Application <i>A.Goeta, R.Destro</i>
		Powder diffraction, Synchrotron radiation	Charge, spin, momentum density, Structural Chemistry
		10 Structure Solution from Powder Data: Inorganic Materials <i>Ch. Baerlocher, J. Ruis</i>	10 Battery and Fuel Cell Materials <i>T.Bruce, T.Kamiyama</i>
		Powder Diffraction//Cryst. Comp.// Inorg. and Min. structures.	Powder Diffraction, Neutron Scattering, XAFS
		11 Structure Solution from Powders Using Electron and Powder Diffraction Techniques <i>S.Hovmoeller, R.J.Cernik</i>	11 Ab Initio Structure Solution Using Powder Data <i>W.David, A.Fitch</i>
		Powder Diffraction, Electron diffraction	Powder Diffraction, Cryst. Computing
		12 Interfaces, Thin films and Multilayers <i>P.Fewster, S.P.Sen Gupta</i>	12 Beyond Classical Applications of the Rietveld Method <i>I.Madsen, R.Cernick</i>
		Powder diffraction, Small angle Scattering	Powder Diffraction, Cryst. Computing
		13 Organometallic and Co-ordination Chemistry <i>A.G.Orpen, C.Kruger</i>	13 Methods for the Characterization of Layered Structures <i>D.Balzar, D.Rafaia</i>
		Inorganic and min. struc., Structural Chemistry	Small angle Scattering, XAFS
		14 The Phase Problem in Electron Crystallography <i>D.Dorset, R.Vincent</i>	14 Modeling and Crystal Structure Prediction <i>M.U.Schmidt, S.Motherwell</i>
		Electron diffraction, Cryst. Computing	Structural Chemistry, Cryst. Computing
		15 Phase Transitions <i>J.M.Pérez-Mato, U.Bismayer</i>	15 Transition Metal-Hydrogen Interactions <i>T.Koetzle, A.Albinati</i>
		Inorganic and min. struc., Crystal growth	Structural Chemistry, Neutron scattering
		16 Problematics in Macromolecular Structures I: Phasing <i>R.Read, Z.Otwinoski</i>	16 Real-Time Probing of Structural Changes and Excited Molecules <i>Y.Ohashi, J.M.Cole</i>
		Biological Macromol., Cryst. Computing	Structural Chemistry, Charge, spin, momentum density
			17 Atomic Resolution Protein Structures <i>P.Fitzgerald, K.Wilson</i>
			Synchrotron radiation, Cryst. Computing
			18 Molecular Dynamics of Crystals and of Phase Transitions <i>A.Gavezzotti, L.Nassimbeni</i>
			Structural Chemistry, Cryst. Computing

KEYNOTES

	Seattle 1996 \ 24Keynotes+8 Nobel Lec.	Glasgow 1999 \ 32Keynotes	Geneva 2002 \ 29Keynotes
Aperiodic crystals 6.45%	<p>3 (9,3%)</p> <ol style="list-style-type: none"> SK12 \ J.M.Dubois Applied Physics of Quasicrystals and Applications SK18 \ J.A.Subirana Helical Polyamides and Rings: a Bridge Between Nylons and Proteins SK20 \ A.Monnier Structural Chemistry of Organic-Inorganic Mesophases 	<p>2 (6,2%)</p> <ol style="list-style-type: none"> GLK0703 \ T.R.Welberry Diffuse Scattering GLK1203 \ W.Steurer The Hidden Order of Aperiodic Crystals 	<p>1 (3,5%)</p> <ol style="list-style-type: none"> D.Shechtman Quasi-Periodic Crystals-The role of Electron Diffraction
Biological Macromolecules 33.85%	<p>10 (31,2%) + 1 shared</p> <ol style="list-style-type: none"> SK01 \ W.A.Hendrickson Multiwavelength Anomalous Diffraction (MAD) in Macromolecular Structure Determination SK04 \ T.A.Jones Reliability of Protein Structure Determination SK07 \ S.C.Harrison Lessons from the High-Resolution Crystallography of Protein-DNA Complexes SK10 \ A.G.W.Leslie The Structure of Bovine Mitochondrial F1-ATPase- An Example of Rotational Catalysis? SK13 \ S.Yoshikawa Crystallization and Crystal Structure of Beef Heart Cytochrome C Oxidase SK19 \ D.C.Wiley Studies on the Loading and Recognition of Antigens on MHC Molecules SK22 \ J.M.Thornton Protein Structures: Their Validation Fold Classification and Interactions SN02 \ J.Deisenhofer Light, Charge, and Protein Structures SN07 \ W.N.Lipscomb The Ideal Allosteric Enzyme SN08 \ H.Michel 	<p>12 (37,5%)</p> <ol style="list-style-type: none"> GLK0502 \ T.J.Richmond Nucleosomes GLK0504 \ K.C.Holmes Molecular Mechanism of Muscle Contraction GLK0602 \ J.Deisenhofer Membrane Protein Structure, an Exciting Frontier GLK0704 \ P.B.Sigler Chaperonin Assisted Protein Folding: the Final Step in Genetic Expression GLK0802 \ D.B. McKay Small Ribozyme Structure and Mechanism GLK0804 \ J.Moult Protein Structure Modeling in the Era of Structural Genomics GLK0904 \ S.Cusack Accuracy in Translation:tRNA and Aminoacid Recognition by Aminoacyl-tRNA Synthetases GLK1102 \ I.A.Wilson Structural Basis of Immune Recognition GLK1104 \ A.R.Ferre-D'Amare Crystal Structure of Hepatitis Delta Virus Ribozyme: Clues to RNA Catalysis GLK1204 \ S.H.Kim Structural Genomics of a Hyperthermophile: a Feasibility Test GLK1302 \ K.Moffat Nanosecond Time-Resolved Crystallography GLK1304 \ J.Wark Pico-second X-Ray Diffraction 	<p>11 (31,2%) + 2 shared</p> <ol style="list-style-type: none"> W.G.J.Hol Inhibitor Design and the Cholera Toxin Family-From Water Puzzles to 10KD spiders K.Namba Structural Mechanisms of Self-Assembly and Polymorphic Supercoiling of the Bacterial Flagellum V.Ramakrishnan Crystallographic Lessons and Functional Insights from the Structure of the 30S Subunit A.Yonath, V. Ramakrishan, T. Steitz The ribosome Symposium M.J.E.Sternberg Exploiting Protein Structure in the Post-Genome Era T.K. Sixma Insights in Nicotinic Receptors through Acetylcholine Binding Protein Structures A.Wittinghofer The GTPase Switch: a Familiar Conserved Module with Unexpected Variations G.Dodson Max Perutz-Crystallographer, Chemist, Biologist and Scientist D. Stuart Viruses W. Hendickson Structural Biology of Cell Invasion and Immune evasion by HIV R. Stroud Glycerol Channel
Charge, spin, momentum density 8.05%	<p>1 shared</p> <ol style="list-style-type: none"> GLK1201 \ P.G.Radaelli Colossal Magneto-Resistance GLK0902 \ Y.Wang Charge Density Analysis and Bond Characterization of 3-D Transition Metal Complex 	<p>2 (6,2%) + 2 shared</p> <ol style="list-style-type: none"> GLK1201 \ P.G.Radaelli Colossal Magneto-Resistance GLK0902 \ Y.Wang Charge Density Analysis and Bond Characterization of 3-D Transition Metal Complex 	<p>3 (9,3%) + 1 shared</p> <ol style="list-style-type: none"> V.Tsirelson New Frontiers in Charge Density Studies J.Akimitsu New Superconductors MgB2 and Related Compounds W.Weyrich Chemical Bonding as Electronic Coherence

Powder diffraction 5.40%	1 SK11 \ D.Louer Modern Powder Diffraction in Material Science	1 (3,2%)	1 GLK0601 \ D.E.Cox The Impact of Powder Diffraction on Material Science 2 GLK0901 \ C.A.Fyfe Solid State NMR as a Complementary Technique to X-Ray Diffraction	2 (6,2%) + 1 shared	1 P.Scardi Crystallography and Engineering: Residual Stress and Microstructure of Materials	1 (3,1%) + 1 shared
Small angle scattering 1.60%		1 shared	1 GLK0603 \ M.V.Kovalchuk X-Ray Standing Wave Technique-Structure-Sensitive Surface Spectroscopy	1 (3,1%)		
Structural chemistry 9.15%	1 SK03 \ V.K.Belsky Preferences and Exceptions in Organic Crystal Packing Modes 2 SK06 \ G.R.Desiraju Designer Crystals: Intermolecular Interactions, Network Structures and Supramolecular Synthons 3 SK15 \ A.Gavezzotti The Crystal Packing of Organic Small Molecules	3 (9,3%) + 1 shared	1 GLK0503 \ E.V.Boldyreva Solid State Reactions 2 GLK1301 \ J.Lipkowsi Supramolecular Hydrates: Hydrophilic versus Hydrophobic Hydration of Molecules in the Solids 3 GLK1303 \ H.B.Burgi Frontiers in Chemical Crystallography	3 (9,4%)	1 L.R.Nassimbeni Structure-Reactivity Relationship of Inclusion Compounds 2 J.M.Lehn Self-Organized Supramolecular Architectures	2 (6,2%)
Synchrotron radiation 4.85%	1 SK09 \ C.I.Branden New Opportunities in X-Ray Crystallography at Third Generation Synchrotron Sources	1 (3,2%) + 1 shared	1 GKL0702 \ W.Thomlinson X-Ray Imaging:from Amplitude to Phase	1 (3,1%)	1 G.Schmahl Recent Developments in X-Ray Microscopy	1 (3,1%) + 2 shared
High pressure 5.90%	1 SK02 \ Y.Fujii Novel Crystal Physics Under Pressure	1 (3,2%)	1 GLK0803 \ W.F.Kuhs Water Structures in Ice and Clathrates: Theme and Pressure Variations 2 GLK1103 \ D.Hausermann Crystallography in Extreme Conditions of Pressure and Temperature:Myth or Reality?	2 (6,2%)	1 A.Katrusiak Pressure-Tuned Crystal Chemistry: H-Bonds vs Central Forces at Phase Transitions and in Polymorphs 2 J.B.Parise What High Pressure Can Do for You?	2 (6,2%) + 1 shared
Electron diffraction 2.15%			1 GLK0604 \ M.Van Heel Cryo-Electron Microscopy of Single Particles: the Structure of the E.Coly Ribosome	1 (3,1%)	1 D.L.Dorset Electron Crystallography	1 (3,1%)
Inorganic and mineral structures 4.85%	1 SK08 \ R.J.Hemley Crystallography of Earth and Planetary Interiors 2 SK17 \ R.E.Newnham Sensors and Actuators:Smart Crystals	2 (6,4%) + 1 shared	2 GLK0903 \ P.Thomas Crystallography and Non-Linear Optics	1 (3,1%) + 1 shared		1 shared
Neutron scattering 4.85%	1 SK24 \ T.F.Koetzle Neutron Diffraction Studies of Coordination and Organometallic Compounds 2 SN06 \ C.G.Shull 3 SN04 \ B.N.Brockhouse The Development of Slow Neutron Spectroscopy: 1950-1965	3 (9,3%)		1 shared	1 J.Jorgensen Neutron Diffraction from High-Temperature Superconductors and Colossal Magnetoresistive Materials	1 (3,1%)
Crystal growth and characterization material 3.75%	1 SK21 \ P.Bennema Growth, Characterizations and Applications of Diamond Films	1 (3,2%)		1 shared	1 GK26 \ M.Lahav Stereochemical Approach to Crystal Nucleation 2 GK04 \ R.Boese In Situ Crystallization Techniques: Tools for Crystal Engineering and Co-Crystallization of Gaseous Compounds	2 (6,2%)

Crystallographic
computing
8.65%

- 3 (9,3%) + 2 shared
- 1 **SK23 \ G.M.Sheldrick**
Direct Methods in Real and Reciprocal Space
 - 2 **SN01 \ H.Hauptman**
The SAS Maximum Principle
 - 3 **SN03 \ J.Karle**
Direct Methods

- 1 (3,1%) + 1 shared
- 1 **GLK1101 \ C.Giacovazzo**
Structures Solution from Powders

- 3 (9,3%)
- 1 **K.A.Nugent**
The Non-Crystallographic Phase Problem and Opportunities with Free-Electron Lasers
 - 2 **S.L.Price**
Computer Predictions of Organic Crystals Structures and Properties
 - 3 **G.M.Sheldrick**
The Contribution of Direct Methods to Macromolecular Structure Determination

XAFS
0.55%

1 shared

Crystallographic
teaching
0.0%

Crystallographic
nomenclature
0.0%

Shared Topics

- 4 (12,4%)
- 1 **SN05 \ J.Kendrew**
Protein Crystallography and Computing: Recollections of the 50s
Biological Macromol.//Crystall. Computing
 - 2 **SK14 \ C.Challout**
The Role of Crystallography for Better High Tc Superconductors
Chargedensity//Inorganic Miner. Struct.
 - 3 **SK05 \ R.Feidenhans'l**
Structure of Surfaces Studied by X-Ray Diffraction
Small angle // Synchrotron Radiation
 - 4 **SK16 \ F.R.Salemme**
The Integration of Structure-Based Drug Design and Combinatorial Chemistry for Efficient Drug Discovery
Structural Chemistry//Crystall. Computing

- 4 (12,4%)
- 1 **GLK1202 \ M.Parrinello**
Role and Perspectives of ab-initio Molecular Dynamics in Crystallography
Charge,..... Density//Crystall. Computing
 - 2 **GLK0701 \ J.D.Dunitz**
Polymorphism: the Same Yet Different
Powder Diffraction//Crystal Growth
 - 3 **GLK0801 \ J.Thomas**
Crystallography and the Lithium-Ion Battery
Neutron Scattering//Inorganic and Mineral Structures
 - 4 **GLK0501 \ J.F.Scott**
Crystallographic Aspects of Ferroelectric Thin-Film Memories
Charge,spin,momentum density // XAFS

- 1 **Z.Dauter**
The Good, the Bad, the Ugly: Experiences at the Synchrotron
Biological Macromolecules-Synchrotron Radiation
- 2 **K.Heremans**
Pressure, Life and Molecules
Biological Macromolecules-High Pressure
- 3 **P.Villars**
Material Design
Charge,spin,momentum density-Inorganic and Mineral Structures
- 4 **I.Robinson**
Phasing of Coherent X-Ray Diffraction from Nanomaterials
Powder Diffraction-Synchrotron Radiation