

# **PREVIOUS MEETINGS**

## Venues of Slovenian-Croatian Crystallographic Meetings

- 1<sup>st</sup> Otočec, Slovenia, 1992
- 2<sup>nd</sup> Stubičke Toplice, Croatia, 1993
- 3<sup>rd</sup> Kranjska Gora, Slovenia, 1994
- 4<sup>th</sup> Trakošćan, Croatia, 1995
- 5<sup>th</sup> Zreče, Slovenia, 1996
- 6<sup>th</sup> Umag, Croatia, 1997
- 7<sup>th</sup> Radenci, Slovenia, 1998
- 8<sup>th</sup> Rovinj, Croatia, 1999
- 9<sup>th</sup> Gozd Martuljek, Slovenia, 2000
- 10<sup>th</sup> Lovran, Croatia, 2001
- 11<sup>th</sup> Bohinj, Slovenia, 2002
- 12<sup>th</sup> Plitvice, Croatia, 2003
- 13<sup>th</sup> Bovec, Slovenia, 2004
- 14<sup>th</sup> Vrsar, Croatia, 2005
- 15<sup>th</sup> Jezersko, Slovenia, 2006
- 16<sup>th</sup> Petřčane, Croatia, 2007
- 17<sup>th</sup> Ptuj, Slovenia, 2008
- 18<sup>th</sup> Varaždín, Croatia, 2009
- 19<sup>th</sup> Strunjan, Slovenia, 2010
- 20<sup>th</sup> Baška, Croatia, 2011
- 21<sup>st</sup> Pokljuka, Slovenia, 2012
- 22<sup>nd</sup> Biograd na Moru, Croatia, 2013
- 23<sup>rd</sup> Logar Valley, Slovenia, 2014
- 24<sup>th</sup> Bol, Croatia, 2016
- 25<sup>th</sup> Ljubljana, Slovenia, 2017
- 26<sup>th</sup> Poreč, Croatia, 2018
- 27<sup>th</sup> Rogaška Slatina, Slovenia, 2019
- 28<sup>th</sup> Poreč, Croatia, 2022
- 29<sup>th</sup> Topolšica, Slovenia, 2023
- 30<sup>th</sup> Veli Lošinj, Croatia, 2024
- 31<sup>st</sup> Rogla, Slovenia, 2025

**1st Slovenian-Croatian Crystallographic Meeting, Otočec ob Krki, Slovenia.  
October 1–2, 1992.**

**A. Kalman** (Budapest, Hungary)

*On the nature of hypervalent S-O bonds in sulfuranes*

**B. Kojić-Prodić** et al. (Zagreb Croatia)

*The biological significance of conformational changes of beta-D-glucopyranose moiety in peptidoglycans*

**C. Kratky** (Graz, Austria)

*Crystallography of B12-coenzymes*

**V. Kraševac** (Ljubljana, Slovenia)

*Crystallography of 2D precipitates caused by a minor phase additions in some ceramic systems*

**2nd Croatian-Slovenian Crystallographic Meeting, Stubičke Toplice, Croatia.  
September 30–October 1, 1993.**

**L. Randaccio** (Trieste, Italy)

*Structural and solution properties of rhodoximes: the Rh analogues of cobaloximes, a vitamin B12 model*

**V. Kaučič** (Ljubljana, Slovenia)

*The structure of zeolite and aluminophosphate molecular sieves*

**K. Huml** (Prague, Czech Republic)

*Crystallography in drug design*

**B. Gržeta** and H. Toraya (Zagreb, Croatia)

*Powder-pattern-fitting methods in structure determination*

**3rd Slovenian-Croatian Crystallographic Meeting, Kranjska gora, Slovenia.  
September 29–30, 1994.**

**W. Fuller**, A. Mahendrasingam, and V. T. Forsyth (Keele, UK)

*Structural studies of biological and industrial fibres using X-ray synchrotron radiation sources and neutron beams*

**A. Rečnik** and D. Kolar (Ljubljana, Slovenia)

*Local structure of planar faults in oxide ceramics*

**T. Schirmer** (Basel, Switzerland)

*Crystal structures of porins: proteins that form transmembrane pores*

**M. Luić** and N. Brničević (Zagreb, Croatia)

*Stereochemistry of hexanuclear niobium clusters with the  $[Nb_6Cl_{12}]^{2+}$  unit*

**4th Croatian-Slovenian Crystallographic Meeting, Trakošćan, Croatia.  
September 28–30, 1995.**

**I. Hargittai** and M. Hargittai (Budapest, Hungary)

*Structure of molecules and assemblies*

**V. Marinković** (Ljubljana, Slovenia)

*Scanning tunneling microscopy of surface structures*

**H. Fuess** (Darmstadt, Germany)

*Contributions of crystallography to material science*

**D. Balzar** (Zagreb, Croatia)

*Diffraction line broadening - nuisance or lattice-imperfections fingerprints*

**5th Slovenian-Croatian Crystallographic Meeting, Zreče, Slovenia.  
June 13–15, 1996**

**H. D. Flack** (Geneve, Switzerland)

*Mastering least-squares refinement*

**J. V. Brenčič** (Ljubljana, Slovenia)

*Structural studies of the halopyridine complexes of trivalent elements*

**P. Panjan** (Ljubljana, Slovenia)

*Interfacial reaction in multilayer structures studied with XTEM and XRD*

**H. Follner** (Lienz, Austria)

*Correspondence between structure and morphology and twin formation*

**Z. Blažina** (Zagreb, Croatia)

*The rare earth based intermetallics - a scientist's paradise*

**6th Croatian-Slovenian Crystallographic Meeting, Umag, Croatia.  
June 19–21, 1997**

**A. Meden** (Ljubljana, Slovenia)

*Crystal structure solution from powder diffraction data - state of the art and perspectives*

**B. Ya. Kotur** (Lviv, Ukrayina)

*Scandium binary and ternary alloy systems and intermetallic compounds*

**P. Orioli** (Firenze, Italy)

*Structural studies on the interactions between metal ions and biological macromolecules*

**M. Vinković** (Zagreb, Croatia)

*Synergy between crystallography and computational chemistry*

**7th Slovenian-Croatian Crystallographic Meeting, Spa Radenci, Slovenia.  
June 18–20, 1998**

**M. Kaftory** (Haifa, Izrael)

*Three decades of chemical reactions in the solid state from photodimerization to methyl transfer*

**A. M. Tonejc** (Zagreb, Croatia)

*High-resolution electron microscopy (HREM): image processing analysis of defects and grain boundaries in nanocrystalline materials*

**E. Tillmanns** (Vienna, Austria)

*How to avoid unnecessarily low symmetry in crystal structure determinations*

**K. Djinić Carugo** (Ljubljana, Slovenia)

*Protein function through crystallography*

**8th Croatian-Slovenian Crystallographic Meeting, Rovinj, Croatia.  
June 17–19, 1999**

**D. Yu. Pushcharovsky** (Moscow, Russia)

*Recent contribution and modern perspectives in XRD studies of minerals*

**G. Jovanovski** (Skopje, Macedonia)

*Metal saccharinates and their complexes with N-donor ligands*

**M. Bolognesi** et al. (Pavia, Italy)

*The high resolution structure of GDP-4-keto-6-deoxy-D-mannose epimerase/reductase*

**G. G. Dodson** (York, UK)

*The chemistry and evolution of the catalytic structures in serine hydrolases*

**A. Demšar** (Ljubljana, Slovenia)

*The inclusion of the ionic fluorides in soluble organometallics*

**9th Slovenian-Croatian Crystallographic Meeting , Gozd Martuljek, Slovenia,  
June 17–19, 2000**

**C. Giacovazzo** (Bari, Italia)

*Phasing: from powders to proteins*

**Ch. Baerlocher** (Zuerich, Switzerland)

*The texture approach to structure solution from powder data*

**A. Tonejc** (Zagreb, Croatia)

*Crystallographic features of mechanically milled and alloyed nano-sized crystalline and amorphous materials*

**I. Turel** (Ljubljana, Slovenia)

*The crystal structures of quinolones and their metal compounds*

**10th Croatian-Slovenian Crystallographic Meeting, Lovran, Croatia.  
June 21–24, 2001**

**K. Prout** (Oxford, UK)

*Molecules in motion*

**G. Zanotti** (Padova, Italy)

*The transport of vitamin A in mammals: a crystallographer's view*

**B. Kobe** (Brisbane, Australia):

*Protein-peptide binding and its regulation*

**O. Milat** (Zagreb, Croatia) and G. Calestani (Parma, Italy):

*Crystallography of composite crystals*

**11th Slovenian-Croatian Crystallographic Meeting, Bohinj Lake, Slovenia.  
June 27–30, 2002**

H. Boehm (Mainz, Germany)

*Phase transitions in modulated structures*

**G. Giester** (Vienna, Austria)

*Five years of CCD X-ray data collection at Vienna University*

**E. R. T. Tiekink** (Singapore, Singapore)

*Adventures in engineering molecular solids*

**D. Matković-Čalogović** (Zagreb, Croatia)

*Some protein crystallography examples - a small molecule crystallographers view*

**B. Modec** (Ljubljana, Slovenia)

*Oxomolybdenum(V) clusters built of dinuclear metal-metal bonded units*

**12th Croatian - Slovenian Crystallographic Meeting, Plitvice Lakes, Croatia.  
June 19–22, 2003**

**B. Kojić-Prodić** (Zagreb, Croatia)

*Hydrogen bonding and supramolecular architecture*

**G. Vlaic** (Trieste, Italy)

*XFAS spectroscopies and chemistry: some selected results*

**J. P. Abrahams, N. Ban** (Zuerich, Switzerland)

*X-ray crystallographic structure determination of large asymmetric macromolecular assemblies*

**A. Golobič** (Ljubljana, Slovenia)

*Solving structural problems of ceramic materials*

**A. Danilovski** (Zagreb, Croatia)

*Biological and pharmaceutical solids in the crystallographic arena*

**13th Slovenian-Croatian Crystallographic Meeting, Bovec, Slovenia.**

**June 16–20, 2004**

**R. Loris** (Brussel, Belgium)

*Structural basis of plasmid addiction and programmed cell death in bacteria*

**D. Turk** (Ljubljana, Slovenia)

*Roles of papain-like cathepsins in immune system response: exclusive interactions as the other face of selectivity*

**K. Domasevitch, J. Sieler** (Leipzig, Germany)

*Architecture and design of new porous networks*

**A. Moguš-Milanković** (Zagreb, Croatia)

*Structure and properties of phosphate glass*

**14th Croatian-Slovenian Crystallographic Meeting, Vrsar, Croatia.**

**June 15–17, 2005**

**N. Lah** (Ljubljana, Slovenia)

*Structural diversity of copper carboxylate complexes*

**L. R. MacGillivray** (Iowa, USA)

*Molecular crystals as media for constructing molecules*

**R. Cerny** (Geneva, Switzerland)

*Crystal structures of inorganic compounds from powder diffraction*

**M. Milun** (Zagreb, Croatia)

*Atomic structure of surfaces and thin films*

**E. Libowitzky** (Vienna, Austria)

*Dynamics of crystal structures: results between diffraction and spectroscopy*

**15th Slovenian-Croatian Crystallographic Meeting, Jezersko, Slovenia.**

**June 14–18, 2006.**

**W. L. Duax** (Buffalo, USA)

*The genes and amino acid sequences and crystal structures of short chain oxiredutase enzymes*

**R. E. Dinnebier** (Stuttgart, Germany)

*Powder diffraction at non-ambient conditions using 2D-detectors*

**G. Štefanić** (Zagreb, Croatia)

*Formation of high-temperature ZrO<sub>2</sub> polymorphs at room temperature*

**M. Kosec** (Ljubljana, Slovenia)

*Ferroelectrics: from bulk to nano*

**16th Croatian-Slovenian Crystallographic Meeting, Petržane, Croatia.**

**June 13–17, 2007.**

**C. Giacovazzo et al.** (Bari, Italy)

*EXPO2007: A tool for crystal structure solution and refinement from powder data*

**N. Tomašić** (Zagreb, Croatia)

*Metamict minerals: Insight into relic crystal structures*

**R. Kužel et al.** (Prague, Czech Republic)

*Structural studies of submicrocrystalline materials obtained by severe plastic deformation*

**B. Kozlevčar** (Ljubljana, Slovenia)

*Structural analysis of copper(II) coordination compounds and correlation with their magnetic properties*

**17th Slovenian-Croatian Crystallographic Meeting, Ptuj, Slovenia.**

**June 19–22, 2008.**

**M. Jaskolski**, K. Michalska (Poznan, Poland)

*L-Asparaginases, their friends and relations*

**G. Pavlović** (Zagreb, Croatia)

*Mercury(II) coordination chemistry in the environment*

**B. Kobe** et al. (Brisbane, Australia)

*Two hotdogs are better than one: The structure of acy-coa thioesterase and the complementarity of structural methods*

**P. Strauch** (Potsdam, Germany)

*Solid state EPR: a structure-spectroscopy relationship*

**B. Orel** et al. (Ljubljana, Slovenia)

*Synthesis of polyhedral oligomeric silsesquioxane (POSS) hybrids and their applications as surface modifiers*

**18th Croatian-Slovenian Crystallographic Meeting, Varaždin, Croatia.**

**June 17–21, 2009.**

**K. Rissanen** (Jyväskylä, Finland)

*Weak intermolecular interactions in the solid state, the supramolecular chemistry perspective*

**S. Petriček** (Ljubljana, Slovenia)

*Complexes with ethers and polyethers*

**P. Naumov**

*Direct observations of dynamic processes in crystals: from the topochemical postulate to ultrafast time-resolved diffraction*

**F. Antson** et al. (York, England)

*How viruses fill their capsids with DNA: crystallography of a DNA-translocating molecular motor*

**P. Dubček** (Zagreb, Croatia)

*Small angle probe into thin film*

**19th Slovenian-Croatian Crystallographic Meeting, Strunjan, Slovenia.**

**June 16–20, 2010.**

**A. L. Spek** (Utrecht, The Netherlands)

*Why Crystal Structure Validation?*

**Z. Dauter** (Argonne National Lab., USA)

*Nobel Prizes Related to Crystallography*

**A. Višnjevac** (Zagreb, Croatia)

*Single Crystal X-ray Crystallography as a Method of Choice in Biomimetic Modelling*

**I. Arčon** (Nova Gorica, Slovenia)

*Structural Analysis of Ordered and Disordered Materials with X-ray Absorption Spectroscopy*

**20th Croatian-Slovenian Crystallographic Meeting, Baška, Island Krk, Croatia.  
June 15–19, 2011.**

**V. Holy** (Prague, Czech Republic)

*Synchrotron-related methods of investigation of nanostructures*

**A. Šantić** (Zagreb, Croatia)

*Charge carrier transport in materials with disordered structures*

**T. Friščić** (Cambridge, UK)

*How to be efficient and environmentally-friendly at the same time: solid-state routes to materials and molecules*

**A. Pevec** (Ljubljana, Slovenia)

*Structural studies of some organotitanium(IV) complexes*

**M. Cetina** (Zagreb, Croatia)

*From self-inclusion and host-guest complexes to channel structures*

**21st Slovenian-Croatian Crystallographic Meeting, Pokljuka, Slovenia.  
June 14–17, 2012.**

**L. B. McCusker** (ETH Zürich, Switzerland)

*Powder diffraction, electron microscopy and microdiffraction - meeting the challenge of zeolite structure analysis*

**K. R. Koch** (Univ. of Stellenbosch, South Africa)

*Deceptively simple, rich platinum(II/IV) and rhodium(III) chemistry viewed through new eyes: What secrets can the  $^{195}\text{Pt}/^{103}\text{Rh}$  nuclei reveal about their molecular disguise in the solution and solid-state?*

**Z. Popović** (Zagreb, Croatia)

*Correlation between supramolecular interactions and structural characteristics of Ag(I) complexes*

**F. Perdih** (Ljubljana, Slovenia)

*Structural aspects of organotitanium fluorides*

**22nd Croatian-Slovenian Crystallographic Meeting, Biograd na Moru, Croatia. June  
June 12–16, 2013.**

**C. B. Aakeröy** (Kansas State University, USA)

*From molecular sociology to functional materials*

**A. Altomare** (Bari, Italy)

*The challenge of the ab-initio crystal structure solution by powder diffraction data: the EXPO software*

**V. Bermanec** (Zagreb, Croatia)

*The importance of collecting and investigation of mineral samples from ore deposits - example of Stari Trg (Trepča) mine*

**M. Jeršek** (Ljubljana, Slovenia)

*Inclusions in gemstones - origin, identification and valuation*

**J. Popović** (Zagreb, Croatia)

*Nanocrystalline metal oxides: synthesis, structure and properties*



**23rd Slovenian-Croatian Crystallographic Meeting, Logar Valley, Slovenia.  
June 19–22, 2014.**

**I. R. Evans** (Durham, UK)

*Structural chemistry of functional materials: mobility in the solid state*

**J. S. O. Evans** (Durham, UK)

*Functional inorganic materials: synthesis, structure, properties and methods development*

**M. Đaković** (Zagreb, Croatia)

*From molecular structure to crystalline solids: non-covalent interactions as a structure directing force in supramolecular assemblies*

**T. Balić-Zunić** (Copenhagen, Denmark)

*Crystallography in mineralogy in the XXI century*

**G. Gunčar** (Ljubljana, Slovenia)

*A structural view of nanobodies*

**24th Croatian-Slovenian Crystallographic Meeting, Bol, Croatia.  
September 21–25, 2016.**

**L. Brammer** (Sheffield, UK)

*Flexibility, Dynamics and Chemical Reactions in Solids: Molecular Crystals to Framework Materials*

**G. Dražić** (Ljubljana, Slovenia)

*Direct imaging and quantification of crystal structures at the atomic level using Cs corrected scanning transmission electron microscope*

**M. Jaskolski** (Poznan, Poland)

*Handling crystal pathologies in macromolecular crystallography*

**Ž. Skoko** (Zagreb, Croatia)

*Thermosolient crystals – acrobatics on the nanoscale*

**M. Zema** (Pavia, Italy)

*Crystallography and Society: outcomes of IYCr2014*

**25th Slovenian-Croatian Crystallographic Meeting, Ljubljana, Slovenia.  
June 14–17, 2017.**

**D. Stalke**, (Göttingen, Germany)

*100 years of Lewis diagram – still valid in the light of charge density?*

**E. V. Boldyreva** (Novosibirsk, Russia)

*High-pressure studies of organic and coordination compounds*

**M. Marinšek** (Ljubljana, Slovenia)

*3D microstructure reconstruction from stack of 2D images demonstrated in Ni-SDC cermets*

**J. K. Cockcroft** (London, UK)

*Powder diffraction: an essential complementary tool for those skilled in the art but one with pitfalls for the unwary*

**K. Molčanov** (Zagreb, Croatia)

*Stacking of planar conjugated rings – beyond aromatics*

**26th Croatian-Slovenian Crystallographic Meeting, Poreč, Croatia.  
June 13–17, 2018.**

**A. Katrusiak** (Poznan, Poland)

*High-pressure effects in hydrogen-bonded crystals*

**P. Scardi** (Trento, Italy)

*SRXRD of metal nanocrystals: learning from mistakes*

**S. C. Tarantino** (Pavia, Italy)

*Crystals' warm-up, stretching and ... workout!*

**Z. Štefanić** (Zagreb, Croatia)

*Purine nucleoside phosphorylases: a quest for enzyme mechanism and allosteric pathways*

**N. Zabukovec Logar** (Ljubljana, Slovenia)

*Crystallography in Microporous Materials Research*

**27th Slovenian-Croatian Crystallographic Meeting, Rogaška Slatina, Slovenia.  
June 19–23, 2019.**

**P. Bombicz** (Budapest, Hungary)

*Synthon/property-engineering of calixarenes (supramolecular interactions, shape and symmetries)*

**M. Vrankić** (Zagreb, Croatia)

*Ambient and non-ambient driven X-ray powder diffraction: Insights into the structure-property relationship in powders*

**P. Macchi** (Bern, Switzerland)

*Are there molecules in crystals?*

**M. Lozinšek** (Ljubljana, Slovenia)

*Noble-gas chemistry in 21<sup>st</sup> century*

**28th Croatian-Slovenian Crystallographic Meeting, Poreč, Croatia.  
September 7–11, 2022.**

**A. Bacchi** (Parma, Italy)

*Smart materials for the release of liquid ingredients*

**A. Moliterni** (Bari, Italy)

*Crystallography, a powerful lens for Materials Science*

**M. Klementová** (Prague, Czech Republic)

*Structure determination of nanomaterials from electron diffraction data*

**J. Kljun** (Ljubljana, Slovenia)

*Development of bioactive metal compounds: structural insights into design and molecular modes of action*

**29th Slovenian-Croatian Crystallographic Meeting, Topolšica, Slovenia.  
June 14–18, 2023.**

**D. Cinčić** (Zagreb, Croatia)

*Crystal engineering of organic and metal-organic multicomponent halogen-bonded solids*

**K. Djinoić Carugo** (Grenoble, France)

*Order from Disorder: Towards molecular architecture of the muscle Z-disk assembly*

**A. Kokalj** (Ljubljana, Slovenia)

*DFT modeling of materials and crystal structures using periodic-boundary conditions*

**S. Parsons** (Edinburgh, UK)

*High pressure phase transitions in molecular crystals*

**30th Croatian-Slovenian Crystallographic Meeting, Veli Lošinj, Croatia.  
June 12–16, 2024.**

**I. Halasz** (Zagreb, Croatia)

*In situ powder X-ray diffraction and Raman spectroscopy for monitoring of ball-milling mechanochemistry*

**L. Cendron** (Padua, Italy)

*A structural view of SOS response in bacteria: how it works and how to block it*

**D. Pelc** (Zagreb, Croatia)

*Diffuse scattering and nanoscale correlations in quantum materials*

**C. Esterhuysen** (Stellenbosch, South Africa)

*The role of intermolecular interactions in chemical processes*

**M. Dragomir** (Ljubljana, Slovenia)

*Synthesis and structure-property relationships of selected quantum materials*

**31st Slovenian-Croatian Crystallographic Meeting, Rogla, Slovenia.  
June 18–22, 2025.**

**R. Boehler** (Tennessee, USA)

*The power of the laser-heated diamond cell combined with electron microscopy*

**A. Čobić** (Zagreb, Croatia)

*Complete recrystallization of metamict allanite matrices under hydrothermal conditions*

**M. Gemmi** (Pontedera, Italy)

*Single crystal electron diffraction on hard and softmatter*

**M. Mazaj** (Ljubljana, Slovenia)

*Exploring dynamics and interactions in metal organic frameworks*

**E. E. McCabe** (Durham, United Kingdom)

*Designing functional materials: mechanisms and consequences of broken inversion symmetry*

