



# VI<sup>th</sup> National Crystallographic Symposium NCS2016

5-7 October 2016 Sofia Bulgaria

## Program of NCS2016 05-07 October, Sofia Bulgaria

Wednesday 5 October 2016

9:00–11:15	<b>Registration</b>
11:15–11:45	<b>Opening ceremony</b> Welcome by Symposium cochairs D. Karashanova, B. Shivachev and Rosica Nikolova President of BCS Official Addresses from the authorities and hosts, BCS recognizing of Prof. Kostadin Petrov for Advancement of crystallography in Bulgaria (Rosica Nikolova and Ognyan Petrov)
	<i>Chairing:</i> Professor Ognyan Petrov – IMC-BAS
11:45–12:30	<i>Keynote lecture</i> <b>A Century After the Braggs - Crystallography Beyond the Independent Atom Model</b> Professor Krzysztof Wozniak, University of Warsaw, Poland
	Followed by <b>Official Photo of NCS2016</b>
12:30–14:00	<b>Lunch Break</b>
	<i>Chairing:</i> Professor Rosica Nikolova – IMC-BAS
14:00–14:45	<i>Keynote lecture</i> <b>Design of nanosized zeolites for advanced applications</b> Professor Svetlana Mintova, ENSICAEN, France
14:45–15:15	<i>Lecture</i> <b>Seed-assisted synthesis, modification and application of zeolites</b> Professor Yuri Kalvachev, IMC-BAS, Bulgaria
15:15–15:45	<i>Lecture</i> <b>Effects of point mutations on the activity and propensity of helical formation of the <math>\tau 1</math>-transactivation domain of Glucocorticoid receptor</b> Evdokiya Salamanova Karolinska Institute, Department of Biosciences and Nutrition, Sweden
15:45–16:15	<i>Commercial lecture, Aquachim</i> <b>From Micro to Nano: Microscopy Innovations and Solutions for Materials Research</b> Anton Tonchev, Zeiss, Germany
16:30–17:30	<b>Poster session 1 (PS1)</b>



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	<i>Chairing:</i> Professor Daniela Kovacheva – IGIC-BAS
<b>9:00–9:45</b>	<i>Keynote lecture</i> <b>Application of Rietveld Method in X-ray Powder Diffraction</b> Professor Srebri Petrov, U. Toronto, Canada
<b>9:45–10:15</b>	<i>Lecture</i> <b>Polyanion compounds: from minerals to electrode materials for lithium and sodium ion batteries</b> Professor Radostina Stoyanova IGIC –BAS
<b>10:15-10:45</b>	<i>Commercial lecture, Panalytical</i> <b>GaliPIX 3D: the detector for hard radiation</b> Bas ter Mull, Panalytical, Netherlands
<b>10:45–11:15</b>	<i>Coffee break</i>
	<i>Chairing:</i> Professor Thomas Kerestedjian – IG-BAS
<b>11:15-12:00</b>	<i>Keynote lecture</i> <b>Crystal chemistry and phonon states in hydrous silicates: amphiboles and tourmalines</b> Professor Boriana Mihailova, University Hamburg, Germany
<b>12:00–12:30</b>	<i>Lecture</i> <b>Crystal chemistry and structural characterisation of natural Cr-spinels</b> Ivanina Sergeevna, IG-BAS
<b>12:30–13:30</b>	<i>Lunch Break</i>
	<i>Chairing:</i> Professor Irena Mihailova – UCTM
<b>13:30-14:15</b>	<i>Keynote lecture</i> <b>Structural studies of borate and tellurite glasses, anti-glass and crystalline phases</b> Professor Atul Khanna, Department of Physics, Guru Nanak Dev University, India
<b>14:15–14:45</b>	<i>Lecture</i> <b>Sinter-crystallization of glass-ceramics: theory and application</b> Professor Alexander Karamanov, IPC-BAS
<b>14:45–15:15</b>	<i>Coffee break</i>
	<i>Chairing:</i> Professor Irena Mihailova – UCTM
<b>15:15–15:30</b>	<i>Lecture</i> <b>Surface and internal crystallization in glass ceramics with a low thermal expansion phase</b> Liliya Vladislavova, Otto-Schott-Institut für Materialforschung, Friedrich-Schiller-Universität Jena, Germany
<b>15:30–16:00</b>	<i>Commercial lecture, JEOL</i> <b>Development of a New Generation Multi-Purpose Electron Microscope: JEOL F2</b> Guillaume Brunetti, PhD, JEOL (EUROPE) SAS, Paris, France
<b>16:15-17:30</b>	<b>Poster session 2 (PS2)</b>
<b>17:30 -</b>	NCS2016 cocktail



Friday 7 October 2016

	<i>Chairing : Professor Daniela Karashanova</i>
<b>9:00–9:45</b>	<i>Keynote lecture</i> <b>In situ reflection electron microscopy – crystal growth modes and phase transitions</b> Professor Bogdan Rangelov, IC-BAS
<b>9:45–10:15</b>	<i>Lecture</i> <b>New Structural Motifs of Hydrogensquarates of Amino Acids and Amino Acid Derivatives and their Application in Organic Material Science</b> Professor Tzonko Kolev, IMB-BAS
<b>10:15-10:45</b>	<i>Lecture</i> <b>Calculate the rotation kinetic energy of the full symmetric molecules with clifford algebra</b> Professor Abidin KILIÇ, Anadolu University, Turkey,
<b>10:45–11:15</b>	<i>Coffee break</i>
	<i>Chairing : Professor Radostina Stoyanova, IGIC–BAS</i>
<b>11:15-12:00</b>	<i>Keynote lecture</i> <b>Solid state NMR characterization of zeolite Beta based drug formulations containing Ag and sulfadiazine</b> Professor Pavleta Shestakova, IOCCP – BAS
<b>12:00–12:30</b>	Commercial lecture, <i>Infolab – Bruker</i> <b>New developments in Bruker XRD systems</b> Dipl.-Ing., MBA Ante Mrkonjic, Bruker, Germany
<b>12:30–13:30</b>	<i>Lunch Break</i>
	<i>Chairing: Professor Lyudmil Antonov, IOCCP – BAS</i>
<b>13:30-14:15</b>	<i>Keynote lecture</i> <b>From mixed-metal coordination compounds towards nanomaterials</b> Professor Katharina Fromm, University of Fribourg Department of Chemistry
<b>14:15–14:45</b>	<i>Lecture</i> <b>Transition metal coordination polymers constructed with organic linkers based on tertiary phosphine oxides – synthesis and structural diversity</b> Professor Galina Gencheva, Sofia University
<b>14:45–15:15</b>	<i>Commercial lecture, Elta90</i> TA Instruments (Thermal analysis)
<b>15:15–</b>	<b>Best Young Scientist Poster Presentations prize and Closing ceremony</b>