EuroSciCon

Crystallography 2018

June 04-05

London, UK



Day 1, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Chemical Crystallography**	Talks On: **Crystallography of Novel Materials**	Talks On: **Electron Crystallography**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Novel crystallization strategies for XFEL studies**	Panel Over: **Inorganic and Organic Crystal Studies**	Panel Over: **Engineering of Crystalline and Non-crystalline Solids**
	Workshop On: **Colloidal crystallization**	Workshop On: **Crystallography research**	Workshop On: **Electronic properties of single crystals**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **Crystallography in Biology**	Talks On: **Spectroscopy**	Talks On: **Crystal Growth**
	Lectures on: **Powder diffraction**	Lectures on: **Structural plasticity of proteins**	Lectures on: **Electron Diffraction in Crystallography**
06:00 PM	Session On: **Cryo-electron microscopy (cryo-EM)**	Session On: **Industrial Crystallization**	Session On: **Protein crystallography and structures**
	NETWORKING	**NETWORKING**	**NETWORKING**

Day 2, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Spectroscopy Applications**	Talks On: **Crystallography Applications**	Talks On: **Advanced Crystallography**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Liquid Crystals and Quasicrystals**	Panel Over: **Chemical Crystallography: General Interest**	Panel Over: **2D Crystal Engineering**
	Workshop On: **Protein crystallization**	Workshop On: **Polymorphs**	Workshop On: **Diffractometer**
	Lunch Break @ Restaurant	*Lunch Break @ Restaurant*	*Lunch Break @ Restaurant*
04:00 PM	Talks On: **Precession electron diffraction (PED)**	Talks On: **Nuclear magnetic resonance crystallography (NMR crystallography)**	Talks On: **Application in Modern Chemistry**
	Lectures on: **Advances in X-ray and Neutron Crystallography**	Lectures on: **X-ray fluorescence (XRF)**	Lectures on: **X-ray scattering (SAXS)**
06:00 PM	Session On: **Pharmaceutical Co-crystals**	Session On: **Nanocrystallography**	Session On: **Advances in Neutron Diffraction**
	NETWORKING	**NETWORKING**	**NETWORKING**

ORGANIZING COMMITTEE MEMBERS



Andrzej Grzechnik
PhD, Institute of Crystallography, RWTH Aachen University, GERMANY



Klaudia Hradil
Head of X-ray center of the Technische University in Vienna, Austria



Martin Meven
Institute of Crystallography, RWTH Aachen University, Germany



Stanko Popovic
President, Croatian Crystallographic Association, Croatia



Yuri Grin
Professor, Max-Planck-Institut for Chemische Physik fester Stoffe, Germany



Bharat Bhushan
Director, Nanoprobe Lab for Bio- & Nanotechnology and Biomimetics, USA



Nadezhda Bolotina
Chair
of Russian National Committee for Crystallography
Russia



Eric Dooryhee
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Jerry L. Atwood
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Distinguished Professor, University of California, USA



Michal Sabat
Professor, University of Virginia, USA



Zbigniew Kaszkur
Professor, Warsaw University, Poland

EuroSciCon

3rd Edition of International conference on

Advanced Spectroscopy, Crystallography and Applications in Modern Chemistry

JUNE 04-05, 2018 & LONDON, UK

AGENDA

Biography

EuroSciCon

Title: Antibody-enabled Small Molecule Drug Discovery

Alastair Lawson
UCB, Slough, UK

Biography

Alastair has been closely involved with the discovery of UCB/Celltech's therapeutic antibodies, including Mylotarg®, Besponsa®, Cimzia®, romosozumab, dapirolizumab pegol, **olokizumab, bimekizumab and UCB7665. Alastair led the development of UCB's proprietary antibody variable region discovery platform, and is now applying structure-based, rational design to antibody discovery. He pioneered UCB's small molecule protein/protein interaction initiative, in which information derived from antibodies is applied to the discovery and design of new chemical entities. Current research interests include the use of function-modifying antibody fragments to define specific conformations of target proteins, linking X-ray crystallography, orthogonal biophysical techniques, molecular dynamics simulations and antibody technology to small molecule fragment screening**

Title: The Fabrication of ITO nanowires by RF-sputtering

Qiang Li
Xi'an Jiaotong University, China

Biography

Dr. Qiang Li, PhD in physics, the lecturer of Electronic Science and Technology, the main research direction is the nano-materials on the light extraction efficiency of LED. Now, as a Academic Visitor in the department of Electronics & Electrical Engineering, the Sheffield of University.

Title: Advances and Applications of Neutron Scattering and Diffraction

Martin Meven
RWTH Aachen University, Germany

Biography

Dr. Martin Meven received his PhD in natural sciences at the Institute of Crystallography at RWTH Aachen University in 2001. Aside from his scientific work on HT superconductors during this time he gained experience in scattering methods with X-ray diffractometry including instrument development. He extended his expertise as postdoc at Munich, where he developed a new single crystal diffractometer for hot neutrons at the neutron source FRM II of the Heinz Maier-Leibnitz Zentrum (MLZ) in Garching, Germany. Since then he has been working as instrument scientist on various topics in the fields of crystallography, solid state chemistry and solid matter physics and material sciences. He has served as a board member of various scientific conferences and scientific referee at review panels at various neutron sources in Europe. He is the speaker of the Special Interest Group on Neutron Scattering (SG # 7) of the German Society of Crystallography (DGK) and organizes workshops on neutron scattering techniques for crystallographers to young scientists on a regular basis. (orcid.org/0000-0002-8079-5848)

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Crystallography of oxidized metal(II)- di(phenolate) complexes; geometric and electronic structures relationship

Yuichi Shimazaki
College of Science, Ibaraki University, Mito, Japan

Biography

Yuichi Shimazaki was born in 1970 in Toyama prefecture, Japan. He received his Doctor's degree in science from Nagoya University in 2000 under the supervision of Professor Osamu Yamauchi. He joined Professor Yoshinori Naruta's group at Kyushu University as Assistant Professor and worked on the redox behavior of various metal porphyrin complexes as models of the active site of metalloenzymes. In 2008 he was promoted to Associate Professor at the College of Science, Ibaraki University. His research interests include the oxidation chemistry of the complexes of various metal ions, model studies of metalloenzymes, bioorganometallic chemistry, and weak interactions in metal-organic molecule systems

Title: Phonon assisted oxygen diffusion vs. oxygen and electronic ordering mechanisms in non-stoichiometric correlated oxides

Werner Paulus
University of Montpellier, France

Biography

Werner Paulus is exploring low temperature oxygen diffusion mechanisms in transition metal oxides. Oxygen doping, via topotactic reaction mechanisms while proceeding at ambient temperature is a powerful tool to access structural and electronic complexity in a controlled way. It also allows to better explore the underlying diffusion mechanisms on an atomic scale, having huge importance in solid state ionics, e.g. for the optimisation of battery materials, fuel cell membranes/electrolytes or sensors. Research activities cover synthesis methods from powder to large single crystals and to explore oxygen intercalation reactions in especially dedicated electrochemical cells on single crystals and polycrystalline electrodes by neutron and X-ray diffraction (synchrotron & laboratory), spectroscopy (XAFS, Raman, INS, IXS, NMR) combined with $^{18}O/^{16}O$ oxygen isotope exchange reactions and sophisticated data analysis (Maximum Entropy, twinning).

Title: The Vlasov's equation for description of solids structure

V.I.Talanin
Institute of Economics and Information Technologies, Zaporozhye, Ukraine

Biography

Dr. Vitalyi Igorevich Talanin was born into a Russian noble family. He received a (1) M.Sc. (2000) in Physics and Technology of Materials & Components in Electronic Technique; (2) a M.Sc. (2006) in Software Engineering; (3) a Ph.D. (2002) in Physics of Semiconductors & Dielectrics; (4) Doctor of Science Honoris Causa (2013) and title of Full Professor (2012) from Russian Academy of Natural History. Dr. V.I.Talanin is a Full Professor (since 2006 to a present time) and Vice-Chief of Computer Science & Software Engineering Dept. (since 2012 to a present time) at the Institute of Economics & Information Technologies (Zaporozhye, Ukraine). Dr. Talanin has published extensively in material science & semiconductor physics, and in software engineering (applied to a material science) and also in Russian history & genealogy (as hobbies). He has written 11 scientific monographs and ca. 200 scientific papers. Dr. Talanin is a Member of Editorial Board of some scientific journals. Dr. Talanin was a Member of a Program Committee at the I (2013), II (2014), III (2015), IV (2016) and V (2017) World Conf. on Information Systems & Technologies. Dr. Talanin was a Member of a Program Committee at the I

SPEAKER SLOTS AVAILABLE

Biography

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Title: Controlled Synthesis and Layer-Number-Dependent Catalytic Properties of Few-layered MoS2/CdS nanosheet-based van der Waals heterostructures for Efficient Photocatalytic H2 Evolution

Shahid Iqbal
Xi'an Jiaotong University,
Shaanxi, China

Biography

Dr. Shahid Iqbal received his Ph.D. degree at School of Chemistry and Chemical Engineering, National Engineering Laboratory for VOCs Pollution Control Material & Technology, University of Chinese Academy of Sciences, Beijing, China in 2017. Currently, he is a post-doctoral researcher at International Research Center for Renewable Energy, State Key Laboratory of Multiphase Flow in Power Engineering, School of Energy & Power Engineering, Xi'an Jiaotong University. His research interest is focused on the controlled synthesis and thickness-dependent catalytic properties of few-layered transition metal dichalcogenides (TMDs) for efficient photocatalytic hydrogen evolution and CO2 conversion

Title: Dielectric and magnetic study of iron- nickel- manganese ternary levo tartrate crystals

S.J.Joshi
Bahauddin Science
College, India

Biography

Dr. S.J.Joshi is a crystal grower, particularly in Gel growth. He has grown several tartrate of iron, manganese, nickel, cobalt, copper and the mixed of these metals. The crystals were characterized and the results were obtained. The popular techniques like XRD, EDAX, TGA, VSM, FTIR, magnetic studies and Mossbauer spectroscopy were employed for the grown crystals for the large variety and the number of crystals. He is associate professor of Physics with specialization in solid state Physics particularly in Gel crystal growth. Moreover he is the Master of Philosophy in Ionosphere, Master of Education, Diploma in Computer Science and the Ph.D. in crystal growth. He stood University first at Master degree in Science (M.Sc). He is also Head of Physics Department of Bahauddin Science College, JUNAGADH (Gujarat, INDIA).

Title: CrystalCMP – fast packing comparison of molecular crystals

Jan Rohlíček
Institute of Physics
Czech Republic

Biography

Jan Rohlíč ek has his expertise in crystal structure determination from powder diffraction data. He is the author of a grid extension of program FOX, that is used for crystal structure determination from powders. He is also author of the program MCE (Marching Cule ELD) for placing atoms and fragments to the 3D Fourier maps and of the presented program CrystalCMP for comparison of molecular packing. He is responsible for the laboratory of powder diffraction at the Department of Structure Analysis at the Institute of Physics AS CR in Prague.

SPEAKER SLOTS AVAILABLE

Biography

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Title: Real Space Modeling of Solution-State SAXS Using Information Theory

Robert P Rambo
Diamond Light Source, Harwell Science and Innovation Campus, UK

Biography

Robert P. Rambo is the Principal Beamline Scientist for B21 at the Diamond Light Source (Didcot, UK). He is the developer of the JAVA program Scatter (www.bioisis.net), and actively develops methods for modeling solution state SAXS experiments. Dr. Rambo completed his Ph.D. at Yale University in the Dept. of Molecular Biophysics and Biochemistry where he investigated protein-RNA complexes using crystallography and chemical probing methods. His post-doctoral fellowship was at the Advanced Light Source at the SIBYLS SAXS beamline 12.3.1.

Title: Investigating crystal growth in ambroxol hydrochloride solutions with the help of FBRM technique in case of nontypical spherical crystallization methods

Orsolya Gyulai
University of Szeged
Hungary

Biography

Orsolya Gyulai earned her Masters' Degree at the University of Szeged as a Researcher Chemist in 2015 and now she is a third-year PhD student at the Institute of Pharmaceutical Technology and Regulatory Affairs. She is going to complete the PhD degree in 2018. She has won several scholarships and presented her research work in Spain, Germany, Sweden, Poland, the Czech Republic and also in Hungary. Her total impact factor is more than 4 at the age of 25. She has now 2 more publications under review. She would like to work for a pharmaceutical company, where she could benefit from what she has learned during the years.

Title: Crystallography of novel monodithiolene molybdenum and tungsten complexes and their precusors

Chrysochos Nicolas
University of Greifswald, Germany

Biography

Nicolas Chrysochos received his Master degree of science in biochemistry from University of Greifswald. Since 2015 is PhD-student under supervision of Prof. Dr. Carola Schulzke at Bioinorganig Chemistry, Institute of Biochemistry, University of Greifswald. His PhD research concentrate on the development of new models for the molybdopterin and tungstopterin cofactors with focus on coordination sphere, physicochemical properties and catalytic activity of the model compounds. During his PhD is paying particular attention on the crystallography of the target models.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Femtoscope: Atomic Resonance in ATP Imposes the Necessary and Sufficient Conditions for Cancer Efficient Radiotherapy

Nicolas Recalde
South Carolina University, USA

Biography

Nicolas Recalde, has worked for 15 years in cancer radiotherapy at Georgetown University Medical Center and Inova Health System, USA. He was Chief Medical Physicist at Potomac Radiation Center in Virgina, USA. Currently he is pursuing his doctorate degree in Physics at University of South Carolina, USA. His research is about low energy associated with miniature X-ray sources and their use for cancer treatment. He is a diplomate of the American Board of Radiology and a member of the American Association of Physicists in Medicine.

Title: Crystallography of phase transformations in solids and its applications

Mingxing Zhang,
The University of Queensland, Australia

Biography

Professor Mingxing Zhang has his expertise in crystallography of phase transformations in solids and crystallography of grain refinement of cast metals. His research focuses on development of new metallic materials and their processing in order to improve the properties of the alloys. He is also an expert on surface engineering of engineering metallic materials. He is one of the two inventors of the well-known edge-to-edge matching model and proposes the research theme on crystallography of grain refinement for cast metals. He is currently a professor in materials science and engineering in the School of Mechanical and Mining Engineering, the University of Queensland. (orcid.org/0000-0001-8363-6968)

Title: Neutron Laue and X-ray diffraction study of a new crystallographic superspace phase in n-nonadecane–urea

Marie-Hélène Lemée-Cailleau
Institut Laue Langevin, France

Biography

Marie-Hélène Lemée-Cailleau is expert in phase transition of molecular solids under various external controlled parameters, like temperature, pressure or light. Her speciality is single crystal neutron diffraction, using either monochromatic or polychromatic techniques, as well as X-ray diffraction (table-top or synchrotron), and all related structural analysis. She is physicist in the Science division of the Institut Laue Langevin, the European Neutron Source, located in Grenoble, France, and member of the French and European Crystallographic associations. (orcid.org/0000-0003-4733-4334)

SPEAKER SLOTS AVAILABLE

Biography

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Title: NMR Crystallography as a tool for characterization of active sites of solid catalysts

Olga B. Lapina
Boreskov Institute of catalysis, Russia

Biography

Olga B. Lapina, Graduated Novosibirsk University (1976), received PhD in 1984, Prof. Dr. S. from1995. Leading Researcher, Head of SSNMR group of Boreskov Institute of Catalysis, Novosibirsk, Russia. She has extensive expertise in modern multinuclear solid-state NMR spectroscopy and applications of magnetic resonance techniques in materials sciences and catalysis. She has been a chair of several international conferences (including EUROMAR-2008) and workshops. Last years she works on application of NMR crystallography for catalyst characterization. (ORCID 0000-0002-9911-7617)

Title: Crystallography of dynamics of metal nanoclusters during chemical reaction at their surface

Zbigniew Kaszkur
Institute of Physical Chemistry, Warsaw, Poland

Biography

Zbigniew Kaszkur has his expertise in in situ powder diffraction, structural analysis of amorphous and nanocrystalline materials and atomistic simulations. He proposes novel approach to monitor structurally chemical reaction on nanocrystals- the method developed in his lab already for more than decade. As DSc in solid state physics he focuses on physical aspects of chemical phenomena. He is a lecturer of crystallography, member of the state Committee of Crystallography in Polish Academy of Sciences and head of the Department of Catalysis on Metals in the Institute of Physical Chemistry. (orcid.org/0000-0003-4733-4334)

Title: Stereochemistry and anti-inflammatory inhibition: Asymmetry complexes of 4-halogenated mofebutazones derivatives

Henrich H. Paradies
Department of Chemistry and Life Science, Jacobs-University, Bremen

Biography

Prof. Henrich H. Paradies, FRSC & CC, MD, Ph.D., Ph.D., D.Sc. (h.c.) studied bioinspired, smart and multi-scale materials with defined wettabilities of cationic lipids as components in antiviral, antibacterial, and anti-inflammatory ingredients, the inhibition of viral activities on the level of monomer or aggregated sizes (cyclic peptides), adherence for brushy surfaces by clinging to flaws and function of the organization on their specific head groups e.g. ammonium vs. phosphonium groups, Zn-cationic lipid-alendronate complexes or cyclic peptides with antimicrobial activities. The uptake of these materials is dependent on free diffusion, micelle endocytosis, distribution through the cytoplasms and disassembles into monomer to unfold full biological activities. A unique role plays the lipid A-phosphates and their approximants as antagonist for chronic inflammation, food poisoning, allergens and resistance against antibiotics. The mechanics and physics of these supramolecular assemblies were analyzed in terms of bond-orientational order, mean field phase diagram and disproportionate crystals or quasicrystals. (orcid.org/0001-0003-9409-3471).

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Synthesis and crystal structure of new poly(organic-inorganig) polymers poly[Cu(NO2- acac)2]n

Hadi Salman Al-Lami
University of Basrah, Basrah, Iraq

Biography

Hadi Salman Al-Lami is working as Professor of polymer chemistry and In addition teaches courses in advance polymer chemistry, inorganic polymers, and biomaterial chemistry and supervising many M.Sc. and Ph.D. postgraduate students. He has published about 100 peer-reviewed papers and three books, beside 10 Iraqi Patents

Title: Non-Euclidean Crystallography

Emil MOLNÁR
Department of Geometry, Inst. Math.
Budapest Univ. Technology Econ.
Hungary

Biography

He is retired professor, scientific field is geometry: axiomatic foundation, non-Euclidean geometries, transformation groups including crystallography in classical and non-Euclidean sense, homogeneous Riemannian 3-spaces (so-called Thurston geometries) in projective interpretation. He was supervisor of several PhD theses. He initiated some new unifying methods in the above geometries, polyhedral algorithm for manifolds, extremal configurations. He worked in collaboration with his colleagues and in international framework: Germany, Russia, Austria, Croatia, Serbia, USA, Italy. He is member of some scientific societies and boards.

Title: The x-ray femtoscope allows us to measure the interaction between dark matter and the atomic nuclei of Cr, Xu and Tm

Edward Jimenez
Chemical Engineering Faculty of Central University, Quito, Ecuador

Biography

Edward Jimenez, has experience in low-energy x-ray diffraction, in oil refining applications and especially in allophones, which is a nano clay that contains silicon and aluminum and exists in the form of powder and one of the largest reserves of allophane is in Ecuador. His main research focuses on the structure of the nuclear surface and the measurement of nuclear stability parameters, with the aim of implementing the x-ray femtoscope. Currently, he is the research director of the Faculty of Chemical Engineering of the Central University of Ecuador. In addition, he was director of research of the Petroleum Company, PETROECUADOR, 2008-2015.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Novel magneto-optic behavior from a polysquaraine: structure / property relationship

Daniel E. Lynch
Exilica Limited,
Coventry, UK

Biography

Daniel Lynch is a materials chemist and crystallographer with recent experience in plastics additives; BAppSc degree (1990) and PhD (1994), from QUT in Brisbane (Australia). A postdoctoral fellowship at Cranfield University (UK) preceded a six-year university research fellowship at Coventry University (UK), becoming a Senior Lecturer in 2001 and a Reader of Applied Chemistry in 2007 at the same institution. He is the author of 250 research publications, the principal inventor of Exilica's patented technology and became the full-time Technical Director of Exilica Limited in 2007, a post that he had held on a part-time basis since Exilica's incorporation in May 2005. (orcid.org/0000-0001-6210-5316)

Title: Fluorescence in quantum systems with violated symmetry

Nikolai N. Bogolubov (Jr.),
Mathematical Institute of the RAS,
Moscow, Russia

Biography

Nikolai N. Bogolubov (Jr.) is a Chief Scientific Researcher at the V.A. Steklov Mathematical Institute of the RAS. His scientific interests are in general mathematical problems of equilibrium and non-equilibrium statistical mechanics and applications of modern mathematical methods of classical and quantum statistical mechanics to the problems of the polaron theory, superradiance theory, and the theory of superconductivity. His main works belong to the field of Theoretical and Mathematical Physics, Classical and Quantum Statistical Mechanics, Kinetic theory. He has published more than 150 works in the field of Statistical Mechanics, Theoretical and Mathematical Physics.

Title: Fluorination of cuspidine-related phases, Ln4Al2O9 (Ln=Sm, Eu, Gd, Tb)

Aroa Morán-Ruiz
University of the Basque Country,
Basque Country,
Spain

Biography

Aroa Morán-Ruiz studied Chemistry at the University of the Basque Country (UPV/EHU) (2004-2009). She has completed a master´s in Forensic Analysis at UPV/EHU (2009-2010). In 2010 she joined to the research group of Prof. Maribel Arriortua at UPV/EHU. In 2012 Aroa was granted with a PhD fellowship by the University of the Basque Country. She was a 3 month PhD visiting student at the University of Birmingham (UK) under the supervision of Prof. Peter Slater. On June 2015 she finished his PhD studies (Inorganic Chemistry) at the UPV/EHU. Aroa is currently working as a postdoctoral researcher funded by the University of the Basque Country. She is working in several topics such as synthesis and characterization of rare earth oxides. She is habitual user of X-ray powder diffractometer. Aroa has experience in Synchrotron X-ray measurements and, structural analysis by Rietveld refinement. She has knowledge of X-ray photoelectron spectroscopy and Raman spectroscopy.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Identification of the Defect Clusters in Congruent Lithium Tantalate

Anastasia Vyalikh
Institute of Experimental Physics, TU Bergakademie Freiberg, Freiberg, Germany

Biography

Anastasia Vyalikh is a research group leader at the Technical University Bergakademie Freiberg since 2014. She received her Master degree in physics at the State University Saint-Petersburg (1999). As PhD in physical chemistry (Free University of Berlin, 2005) she focuses on the application of solid-state NMR and quantum-chemical calculations for structure determination in functional oxides, solid ionic conductors, low-dimensional carbon materials. Current research interests include studies of interfacial phenomena in organic - inorganic nanocomposites, conducting glass-ceramics, carbon-based nanohybrids as well as implementation of the in-situ methods for studies of electrochemical processes. (orcid.org/0000-0003-2326-8889)

Title: Crystallography and thermal conductivity of thermoelectric clathrates

Yuri Grin
Max-Planck-Institut für Chemische Physik fester Stoffe, Dresden, Germany

Biography

Main scientific interests: Experimental and theoretical investigations on chemistry and physics of intermetallic compounds based on analysis of chemical bonding. He is Member of the Max Planck Society and Director at Max-Planck-Institut für Chemische Physik fester Stoffe in Dresden, faculty member and honorary professor in Chemical Metal Science at the Dresden University of Technology, member of the editorial boards of several journals, Board Member of the International and European Thermoelectric Societies and Associate Member of the International Thermoelectric Academy. Author and co-author of ca. 600 scientific publications and more than 15 patents

Title: Bragg Projection Ptychography on low-dimensional materials

Xiaowen Shi
Diamond Light Source, Oxfordshire, United Kingdom

Biography

Dr. Xiaowen Shi is a full-time beamline support scientist at Diamond Light Source, in Oxfordshire, United Kingdom. Her main research interests are coherent x-ray diffraction imaging and x-ray ptychography in both forward and Bragg geometries, for materials sciences and nanotehcnologies applications. Dr. Shi studied at Cambridge University and University College London, and worked at Lawrence Berkeley National Laboratory for three years. She has been working at Diamond Light Source since November 2015.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: High-pressure crystallographic studies in diamond anvil cells using X-rays and neutrons

Andrzej Grzechnik
RWTH Aachen University, GERMANY

Biography

Andrzej Grzechnik is a staff scientist at the Institute of Crystallography, RWTH Aachen University (Germany). He has completed his PhD in chemistry from the Arizona State University in 1996. Since then, he has been working on various topics in the fields of crystallography, materials science, solid state chemistry, condensed matter physics, and applied mineralogy. He has served as a board member of various scientific meetings and review panels. Currently, he is a Chair of the Special Interest Group on Crystallography of Functional Materials (SIG#12) of the European Crystallographic Association.

Title: Co-Crystallization- Towards Enhanced Biological Activities Examples of Crystal Engineering Approach

Sammer Yousuf
International Center for Chemical and Biological Sciences, University of Karachi, Pakistan

Biography

Sammer Yousuf's research interests includes structure determination of complex organic molecules of natural and synthetic origins and structural, physio-chemical and biological properties evaluation of co-crystals by employing single-crystal X-ray diffraction techniques. She has determined the structures of hundreds of compounds including novel class of organoflourine secondary metabolites, novel co-crystals of natural products and Hirschfield surface analysis of many organic compounds for the first time. She has Over 140 research publications in international journals, 5 international patents and 5 chapters in deferent books. She is an Associate Professor of Organic Chemistry at the H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi. Based on her contributions in the field of structural and medicinal chemistry, she has received prestigious TWAS Regional Prize for Young Scientist from TWAS in 2011, and elected as TWAS Young affiliate in 2013 and member of Pakistan Academy of Sciences in 2017. (orcid.org/0000-0002-8870-3581).

Title: Synthesis and characterization of Triglycinesulphate crystals doped with potassium succinate

Vijeesh Padmanabhan
The Cochin College, India

Biography

Vijeesh Padmanabhan has his expertise in synthesis and characterization of Non linear optical materials and their characterization. He designed a crystallizer for slow cooling solution growth for the synthesis of the materials. And also designed a temperature controller for slow cooling of the solution. He is an Assistant Professor in Physics, Department of Physics, The Cochin College, India. He presently doing his research in Department of Electronics , The Cochin University of Science and Technology. He got slected for summer research fellowships by Indian Academy of Science and did research work in Raja Ramanna Center for Advanced Technology, India.He presented research paper in „ Crystallography 2017" Chicago, U.S.A during October 2017.

SPEAKER SLOTS AVAILABLE

Biography

EuroSciCon

Title: Contemporary diffraction methods in study of polycrystals

Stanko Popović
Physics department, University of Zagreb, Croatia

Biography

PhD in Physics: Faculty of Science, University of Zagreb (FS). Positions: Senior Scientist, Ruđer Bošković Institute, Zagreb (RBI); Full Professor, FS; Professor Emeritus, FS; Fellow of Croatian Academy of Sciences and Arts. Specialization: University of Manchester. Visiting professor: Slovak Academy of Sciences; Martin Luther University, Halle. Teaching courses: Fundamentals of Physics, X-ray Diffraction, Solid State Physics. Supervisor: PhD, MSc and diploma theses. Awards for scientific achievements: Municipality of Zagreb Award; State Annual Award. Organization: tens international meetings, European Crystallographic Meetings, European Powder Diffraction Conferences. Delegate of RBI in European Physical Society. President of Croatian Crystallographic Association. Chair of the Committee working on the Croatian Educational Standard in Physics. Scientific interest: crystallography, solid state physics, X-ray diffraction, electron microscopy. Crystal structure and microstructure, phase transitions, phase diagrams, metallic alloys and oxides, semiconductors, (bio)minerals. Education. History of science. 200 papers in journals cited in Current Contents, 20 invited lectures.

Title: *Frag Xtal Screen* for direct crystallographic fragment screening

Christin Reuter
Jena Bioscience GmbH, Germany

Biography

Christin studied Biotechnology and joined Jena Bioscience GmbH in 2005. She was promoted Head of Macromolecular Crystallography & Cryo-EM in 2011 and works in product development ranging from classic crystallization screens to specific tools and screens for Cryo-EM.

SPEAKER SLOTS AVAILABLE

City Attractions









City Attractions







