Schweizerische Gesellschaft für Kristallographie
Société Suisse de Cristallographie
Società Svizzera di Cristallografia
Swiss Society for Crystallography

Sektion für Kristallwachstum und Kristalltechnologie
Section de Croissance et Technologie des Cristaux

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SGK / SSCr NEWSLETTER

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In this issue:

On the Cover:

Annoncement of the 30th Meeting of the European Crystallographic Association in Basel from 28 August until 1 September 2016. Copyright: Robert Hausmann (eventfotogtafen.ch)

SGK / SSCr Newsletter No. 95

The President's Page

At annual meeting in Neuchatel, the general assembly of the Swiss Society for Crystallography elected me as president. I am very honored to have received such a prestigious nomination and will do my best to serve the Swiss crystallographic community in the next three years.
First of all, let me thank Dr. Jürg Schefer (Paul Scherer Institute) for his work during the past three years and for giving continuous support and advices to the board of the society.

2016 will be a hectic year for our Society, culminating with the 30th European Crystallographic Meeting (ECM30) in Basel (28 August – 1st September). Many members of our society are engaged in this fantastic adventure and are certainly aware of the enormous efforts requested for the organization of this event, chaired by Prof. Katharina Fromm (University of Fribourg) a former president of our society.
We are happy to have received more than 650 abstracts so far, and we hope to see a large participation of colleagues from all over Europe, and from Switzerland in particular. We hope that each member of the society will be able to attend the meeting, together with coworkers of his/her research group and colleagues from his/her research institute. The program is exciting and I am confident that the plenary lectures from two noble prizes, the 17 keynote lectures from outstanding scientists operating in various areas of crystallography and the 50 microsymposia dedicated to explore the progresses of the past few years, will meet the expectation. We should not forget the satellite meetings organized before or after the main event, which are dedicated to students and experts in specialized fields. Given the enormous efforts spent for the meeting in Basel, this year the national meeting will not take place and the general assembly will be organized within the ECM.
If you have not registered for Basel yet, you are still in time.

It was somewhat embarrassing to begin my term as president with the request to increase the association fee of regular members from 30 to 40 Swiss Francs. This was decided at the latest assembly in Neuchatel and voted almost unanimously. It is a large increase in percent, but only a small one in absolute value. The fee has remained constant for many years, whereas the amount of events organized or sponsored by the society has increased, including of course the expensive and demanding organization of ECM30.
Apart from the meeting in Basel, our society is extremely active organizing or supporting schools and workshops, as well as many other events with the aim to promote crystallography in Switzerland and Swiss crystallographers around the world. Your contribution will be used to reinforce all these activities.
Many members have already renewed their subscription for 2016 and I thank for their understanding.

I wish you a successful 2016 and I hope to meet you in Basel

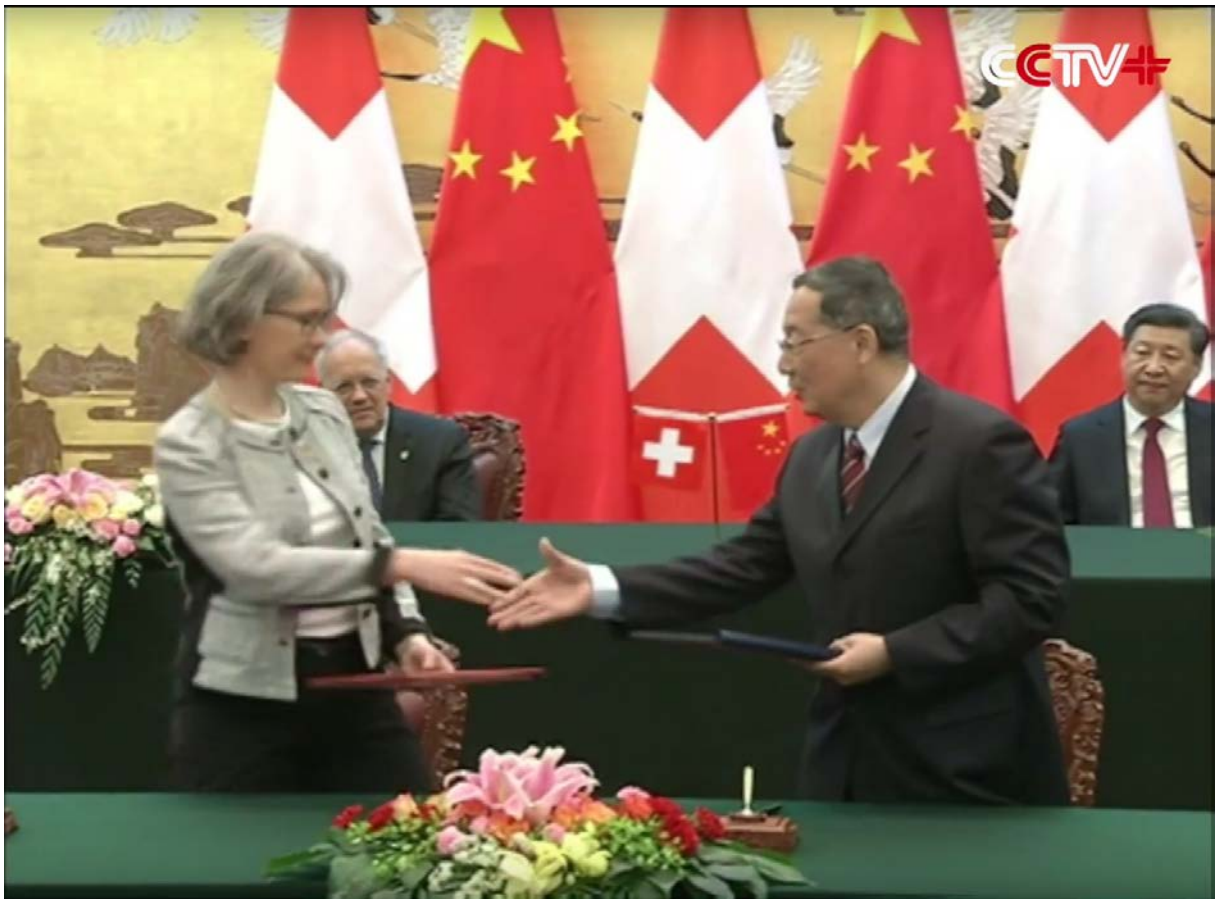
Piero Macchi
(President of the SGK-SSCr)

News for and from members

We welcome the following new members of the SGK/SSCr
Dr. Martin Fisch, Bern
Mr. Fabio Montisci, Universität Bern
Mrs. Rebecca Scatena, Universität Bern
Mr. Ramon Schmid, EMPA St. Gallen
Ms. Emilie Didelot, Université de Genève

The President of the Swiss Conferderation visits China

Beginning of April 2016, the President of the Swiss Confederation Joahnn Schneider-Ammann visited politicians in Beijing and Shanghai, China, with a delegation of 40 representants of science and enconomy in Switzerland. Katharina M. Fromm, Vice president of the SNSF, professor for chemistry at the University of Fribourg and former president of the Swiss Society for Crystallography signed a Memorandum of Understanding with the National Natural Science Foundation of China.



Katharina M. Fromm, Vice-President of the SNSF Research Council, signs a Memorandum of Understanding with the National Natural Science Foundation of China in presence of the two state presidents, Johann Schneider-Ammann and Xi Jinping.

Obituary Aloysio Janner (1928 - 2016)

On January 27, 2016, Prof. Aloysio Janner passed away in Nijmegen. Aloysio is well known in our community owing to his major contributions to the field of non-periodic crystallographic structures and for the prestigious awards he received during his scientific career.

Born in Muralto (Ti) on 24 March 1928, he was first trained as a teacher at the Scuola Normale in Locarno and then obtained his diploma in Physics at the ETH in 1952. His master's degree was awarded under the guidance of W. Pauli. For the next five years he taught mathematics, physics and natural science at the high school and the Scuola Normale. As this activity did not fully satisfy him, he started work towards a PhD with W. Pauli, who, unfortunately, died shortly afterwards. Aloysio continued his thesis under the responsibility of A. Thellung at the University of Zurich and in the Battelle Institute in Geneva. In 1962 he obtained his PhD and started to lead the theoretical physics group at the Battelle Institute. One year later, he accepted a position of ordinary professor of theoretical physics at the University of Nijmegen, NL, where he retired in 1993.

My first contacts with Aloysio started in the nineteen seventies during the triennial conferences on aperiodic crystals organized by the International Union of Crystallography. This field was just growing rapidly after the important discovery by Pim de Wolff who elaborated a new symmetry formalism for the description of the incommensurately modulated structure of anhydrous sodium carbonate in four-dimensional space. In the same microsymposium session during the 1972 IUCr congress in Kyoto where Pim de Wolff was announcing his discovery, Aloysio presented the four dimensional symmetry groups of lattice vibrations. Both authors soon realized that the symmetry properties of the objects they were dealing with were identical. Quasicrystallography was thus born, in analogy to quasiperiodic systems or motions in dynamical systems. Aloysio and his PhD student T. Janssen had already tabulated the full symmetry groups of vibrating lattices so that the newly discovered modulated structures could be easily expressed within this new symmetry paradigm. From there on, thanks to the theoretical foundations on the new symmetry paradigm established by Aloysio and colleagues, the development of the field accelerated exponentially as well as the international reputation of Aloysio. Perhaps one of his most elegant contributions concerns the mineral Calaverite ((Au,Ag)Te2), the structure of which presented a real puzzle to the scientific community since the beginning of the 20th century. No one was able to identify the faces of this mineral until Aloysio and his

PhD student B. Dam understood that Calaverite presented an incommensurate structure, which could thus be treated in higher-dimensional space. Based on optical measurements published in 1931, they succeeded to determine the modulation vectors of this incommensurate structure to a precision which was higher than those provided by X-ray diffraction measurements!

Following his retirement from the teaching duties, Aloysio felt liberated from any constraint and continued his creative research on the generalization of symmetry of any type of crystallographic structures including periodic ones like proteins and aperiodic crystals. He developed further the concept of scaling symmetries and hyperbolic rotations as observed in decagonal quasicrystals. He also looked at scaling properties by studying the morphology of snowflakes. Triggered by the morphology of protein structures and some statistical considerations on the characteristic of structures, he developed further the concept of integral lattices in order to illustrate the tendency of nature to reduce the number of free parameters in different classes of structures.

By exploring all these concepts, Aloysio was attempting to establish the basis of a generalized crystallography. Perhaps his last papers, which are still in the pipeline to be published, will reveal some of the mysteries that remain to be explained.

The scientific contributions of Aloysio in the field of generalized crystallography were recognized on many occasions. In 1998, he obtained the Aminoff Prize for crystallography from the Swedish Academy of Sciences, together with Ted Janssen and Pim de Wolff. Very recently, in 2014, he was awarded the Ewald Prize of the IUCr in 2014 together with Ted Janssen.

Aloysio was also awarded the title of Dr h.c. by the University of Rennes (1992), the University of Lausanne (1993) and the University of Geneva (1995). The last two distinctions obtained from Swiss Universities illustrate the close professional and personal links he maintained with his country of origin. Shortly after his retirement, Aloysio spent one month in Lausanne on the invitation of the doctoral school of physics (Troisième cycle de physique at that time) where he gave a series of lectures entitled “Crystallography of Hidden Crystal Symmetries”. He was also a founding member of the Swiss Society of Crystallography since its creation in 1969 and kept his membership through all these years.

Those familiar with the remote Walser community of Gurin (Bosco in Italian), the only place in the canton of Tessin where the German language is still spoken, will recognize that Janner is a very common local patronym. Every year, Aloysio was traveling to Gurin during summer in order to take care of the lovely family house placed in the village and to spend a few moments with the larger family and his old friends.

Not only the local community will dearly miss him. The Swiss community of physicists and crystallographers will also regret him for his very important contributions to solid state and materials sciences.

Gervais Chapuis

Lausanne, 20 February 2016

Obituary Theo Hahn (1928-2016)

With great sadness we have to inform you that Prof. Dr Theo Hahn passed away on 12 February 2016, only a few weeks after his 88th birthday.

Theo Hahn was Chair of Crystallography at RWTH Aachen University from 1963 until 1993, and founder and Director of the Institute of Crystallography. He was internationally recognized and valued as an outstanding academic teacher and scientist, with profound contributions, inter alia, to theoretical crystallography and symmetry theory. He was also an Editor and author for International Tables for Crystallography. Theo Hahn was awarded the Abraham-Gottlob-Werner-Medal of the German Mineralogical Society (DMG, 1997) and the Carl-Hermann-Medal of the German Crystallographic Association (DGK, 2001), of which he had been an Honorary Member since 1997. From his various commitments in scientific organizations we restrict ourselves to mention that he was Chair of the German Mineralogical Society (DMG) 1982–1984, and President of the International Union of Crystallography (IUCr) 1984–1987.

The Institute of Crystallography of RWTH Aachen and the community of crystallographers worldwide will miss Theo Hahn as an inspiring spell-binding teacher, and a wonderful person.

Gernot Heger and Georg Roth, Aachen

(reproduced from http://www.iucr.org/news/notices/announcements/theo-hahn with permission)

Highlights

Nat. Comm. **2016,** *7*,10901

Putting pressure on aromaticity along with in situ experimental electron density of a molecular crystal

Nicola Casati, Annette Kleppe, Andrew P. Jephcoat and Piero Macchi

Abstract:
When pressure is applied, the molecules inside a crystal undergo significant changes of their stereoelectronic properties. The most interesting are those enhancing the reactivity of systems that would be otherwise rather inert at ambient conditions. Before a reaction can occur, however, a molecule must be activated, which means destabilized. In aromatic compounds, molecular stability originates from the resonance between two electronic configurations. Here we show how the resonance energy can be decreased in molecular crystals on application of pressure. The focus is on syn-1,6:8,13-Biscarbonyl[14]annulene, an aromatic compound at ambient conditions that gradually localizes one of the resonant configurations on compression. This phenomenon is evident from the molecular geometries measured at several pressures and from the experimentally determined electron density distribution at 7.7 GPa; the observations presented in this work are validated by periodic DFT calculations.

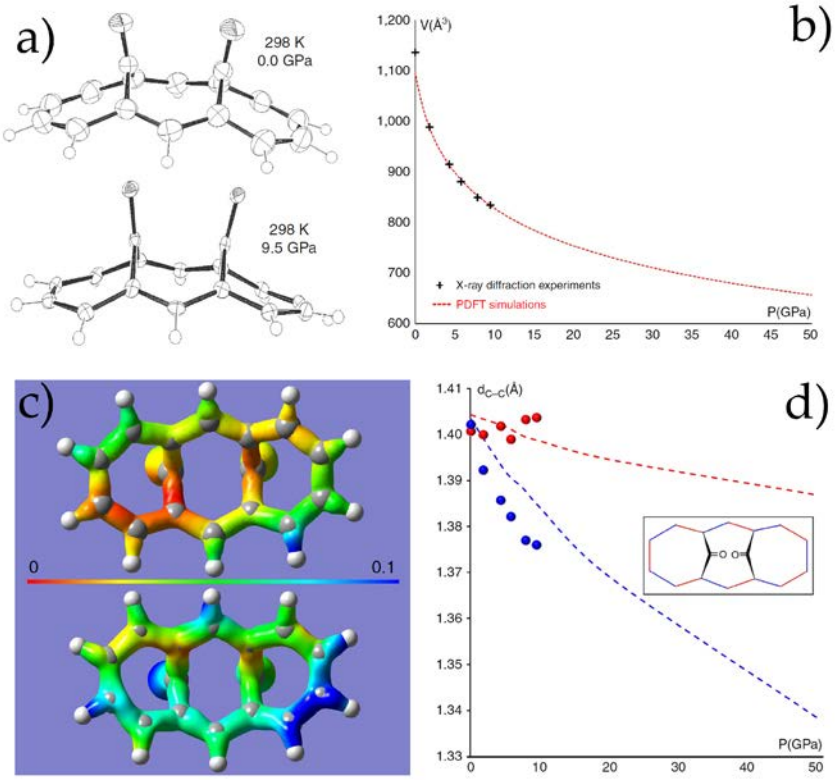


Figure 1: (a) BCA molecule. the molecular geometry and atomic displacement parameters of the BCA-molecule at ambient pressure and at 9.5 GPa are shown. (b) BCA compressibility. The unit cell volume as a function of pressure, from single crystal diffraction experiments and from periodic DFT calculations. (c) BCA electric field. The magnitude of the electric field acting on a BCA molecule, plotted on a electron density isovalue surface of 0.2 a.u. of BCA at 0.0 GPa (top) and 7.7 GPa (bottom). The colour

scale for the electric field is in atomic units (=5.1 x 10^{11} Vm^{-1}, blue). a.u., arbitrary units. (d) Resonant configurations bond evolution. The average bond distances for hypothetical C–C double bonds of c1 and c2 (blue and red) as a function of pressure from the single crystal measurements (circles) or the theoretical calculations (dashed lines). Experimental data are corrected for thermal libration effects.

Announcements

Scientific Programme of the 30th Meeting of the European Crystallographic Association in Basel **http://ecm30.ecanews.org/ecm2016/home.html**

Sunday, 28 August 2016

Opening / Closing Session, Sydney

17:00 - 19:00 **Opening Session**

Monday, 29 August 2016

Poster Session, San Francisco

08:00 - 17:30 **Poster Exhibition**

Plenary Lecture, Sydney

08:30 - 09:30 **Ada Yonath**
Crystallography & Ribosomes, Antibiotics Resistance, Parasites, the
Microbiome, Environmental issues, Origin of Life and More
A. Yonath (Weizmann Institute, Jerusalem, IS)

Focus Area 1 (SIG 1), Microsymposia, Sydney

10:00 - 12:00 **MS 7 Protein & Glycobiology structure determination**
Protein & Glycobiology structure determination

Focus Area 4 (SIG 7, 13), Microsymposia, Singapore

10:00 - 12:00 **MS 36 Crystallography in solid state reactions and catalysis**
MS 36 Crystallography in solid state reactions and catalysis

Focus Area 3 (SIG 2, 3, 4), Microsymposia, Darwin

10:00 - 12:00 **MS 23 Charge and spin density of materials at extreme conditions**
Charge and spin density of materials at extreme conditions

Focus Area 4 (SIG 7, 13), Microsymposia, Boston 3

10:00 - 12:00 **MS 31 Crystal energy landscapes: computation and uses**
Crystal energy landscapes: computation and uses

Focus Area 1 (SIG 1), Microsymposia, Rio

10:00 - 12:00 **MS 12 Biophysical characterization and crystallization**
Biophysical characterization and crystallization

	Focus Area 5 (SIG 6, 8, 9), Microsymposia, Osaka
10:00 - 12:00	**MS 39 X-Ray diffraction on the µs to ps time scale** **X-Ray diffraction on the µs to ps time scale**
	Focus Area 2 (SIG 5, 11, 12), Microsymposia, Samarkand
10:00 - 12:00	**MS 15 Minerals and materials** **Minerals and materials**
	Focus Area 1 (SIG 1), Microsymposia, Sydney
14:00 - 16:00	**MS 10 H-bonding & weak interactions in crystals: neutrons and X-rays** **H-bonding & weak interactions in crystals: neutrons and X-rays**
	Focus Area 4 (SIG 7, 13), Microsymposia, Singapore
14:00 - 16:00	**MS 34 Molecular recognition, supramolecular chemistry and crystal engineering** **Molecular recognition, supramolecular chemistry and crystal engineering**
	Focus Area 3 (SIG 2, 3, 4), Microsymposia, Darwin
14:00 - 16:00	**MS 26 Incommensurate modulated and composite phases** **Incommensurate modulated and composite phases**
	Focus Area 5 (SIG 6, 8, 9), Microsymposia, Boston 3
14:00 - 16:00	**MS 42 Advances in neutron scattering under non-ambient conditions** **Advances in neutron scattering under non-ambient conditions**
	Focus Area 1 (SIG 1), Microsymposia, Rio
14:00 - 16:00	**MS 2 Development of new types of sample preparation (both XFEL & synchrotrons)** **Development of new types of sample preparation (both XFEL & synchrotrons)**
	General Microsymposia, Microsymposia, Osaka
14:00 - 16:00	**MS 49 How to...: crystallization for small and large molecules** **How to...: crystallization for small and large molecules**
	Focus Area 2 (SIG 5, 11, 12), Microsymposia, Samarkand
14:00 - 16:00	**MS 18 Structural studies of meteoritic, extra-terrestrial, and planetary materials** **Structural studies of meteoritic, extra-terrestrial, and planetary materials**
	Keynote Lecture, Sydney
16:30 - 17:30	**Peter Schurtenberger** **Keynote 7** P. Schurtenberger (Lund University, SE)

Keynote Lecture, Singapore

16:30 - 17:30 **Francesca Fabbiani**
Exploring crystalline molecular materials at high pressure
F. Fabbiani (Göttingen, DE)

Poster Session, San Francisco
17:30 - 19:00 Poster session 1

Tuesday, 30 August 2016

Poster Session, San Francisco

08:00 - 17:30 **Poster exhibition**

Keynote Lecture, Sydney

08:30 - 09:30 **François Diederich**
Molecular Recognition in Chemical and Biological Systems: A Multidimensional Approach
F. Diederich (ETH Zürich, CH)

Keynote Lecture, Singapore

08:30 - 09:30 **Birger Dittrich**
Excited state chrystallography exploiting
B. Dittrich (Heinrich-Heine University, Düsseldorf, DE)

Focus Area 1 (SIG 1), Microsymposia, Sydney

10:00 - 12:00 **MS 13 Hot structures in biology**
Hot structures in biology

Focus Area 1 (SIG 1), Microsymposia, Singapore

10:00 - 12:00 **MS 3 Data collection and processing software (XFELS & synchrotrons)**
Data collection and processing software (XFELS & synchrotrons)

Focus Area 3 (SIG 2, 3, 4), Microsymposia, Darwin

10:00 - 12:00 **MS 27 Dynamical refinement of electron diffraction data**
Dynamical refinement of electron diffraction data

Focus Area 2 (SIG 5, 11, 12), Microsymposia, Rio

10:00 - 12:00 **MS 19 Solid state oxygen fuel cell, hydrogen storage & battery materials**
Solid state oxygen fuel cell, hydrogen storage & battery materials

Focus Area 4 (SIG 7, 13), Microsymposia, Osaka

10:00 - 12:00 **MS 35 Simulation of dynamics in molecular compounds**
Simulation of dynamics in molecular compounds

Focus Area 5 (SIG 6, 8, 9), Microsymposia, Samarkand

10:00 - 12:00 **MS 44 Total scattering: pdf analysis and diffuse scattering in X-Ray, neutron and electron diffraction**
Total scattering: pdf analysis and diffuse scattering in X-Ray, neutron and electron diffraction

	Focus Area 4 (SIG 7, 13), Microsymposia, Sydney
14:00 - 16:00	**MS 32 Polymorphs, cocrystals, solvates, salts: a jungle for scientists and industries** **Polymorphs, cocrystals, solvates, salts: a jungle for scientists and industries**
	Focus Area 1 (SIG 1), Microsymposia, Singapore
14:00 - 16:00	**MS 4 New developments in phasing and refinement** **New developments in phasing and refinement**
	Focus Area 5 (SIG 6, 8, 9), Microsymposia, Darwin
14:00 - 16:00	**MS 43 Combining x-ray diffraction and other techniques for in situ and operando studies** **Combining x-ray diffraction and other techniques for in situ and operando studies**
	Focus Area 2 (SIG 5, 11, 12), Microsymposia, Rio
14:00 - 16:00	**MS 20 Materials for energy conversion and harvesting** **Materials for energy conversion and harvesting**
	Focus Area 3 (SIG 2, 3, 4), Microsymposia, Osaka
14:00 - 16:00	**MS 28 New approaches in electron crystallography** **28 New approaches in electron crystallography**
	General Microsymposia, Microsymposia, Samarkand
14:00 - 16:00	**MS 47 Teaching & Education** **Teaching & Education**
	Keynote Lecture, Sydney
16:30 - 17:30	**Sandra W. Jacob** **Allosteric Kinase Inhibitors** S. W. Jacob (Novartis Pharma AG, Basel, CH)
	Keynote Lecture, Singapore
16:30 - 17:30	**Marcus Neumann** **Organic crystal structure prediction - from fundamental research to industrial application** M. Neumann (Avant-garde Materials Simulation, Freiburg, DE)
	Poster Session, San Francisco
17:30 - 19:00	**Poster Session 2**
	Other Session, Sydney
19:00 - 20:30	**The Bertaut Prize Ceremony and Science Slam**

Wednesday, 31 August 2016

	Poster Session, San Francisco
08:00 - 18:30	**Poster Exhibition**
	Keynote Lecture, Sydney
08:30 - 09:30	**Jan Pieter Abraham** **Electron nanodiffraction for structural biology** J.P. Abrahams (Biozentrum University of Basel, Basel, CH)

	Keynote Lecture, Singapore
08:30 - 09:30	**Simon Parsons** **Understanding the diving forces of phase transitions in molecules** S. Parsons (University of Edinburgh, Edinburgh, UK)
	Focus Area 4 (SIG 7, 13), Microsymposia, Sydney
10:00 - 12:00	**MS 38 Nanomaterials & graphene** **Nanomaterials & graphene**
	Focus Area 1 (SIG 1), Microsymposia, Singapore
10:00 - 12:00	**MS 11 Hybrid approaches and validation (X-ray and electron microscopy)** **Hybrid approaches and validation (X-ray and electron microscopy)**
	Focus Area 2 (SIG 5, 11, 12), Microsymposia, Darwin
10:00 - 12:00	**MS 21 Structural disorder and materials' properties at ambient and non-ambient conditions** **Structural disorder and materials' properties at ambient and nonambient conditions**
	Focus Area 1 (SIG 1), Microsymposia, Rio
10:00 - 12:00	**MS 5 Structural information in drug design** **Structural information in drug design**
	General Microsymposia, Microsymposia, Osaka
10:00 - 12:00	**MS 48 Crystallography in art and cultural heritage** **Crystallography in art and cultural heritage**
	Focus Area 5 (SIG 6, 8, 9), Microsymposia, Samarkand
10:00 - 12:00	**MS 46 Computational tools for theoretical chemistry in crystallography** **Computational tools for theoretical chemistry in crystallography**
	Focus Area 1 (SIG 1), Microsymposia, Sydney
14:00 - 16:00	**MS 6 Molecular machines and big complexes** **Molecular machines and big complexes**
	Focus Area 4 (SIG 7, 13), Microsymposia, Singapore
14:00 - 16:00	**MS 37 Molecular compounds and MOFs at ambient conditions and under high pressure** **Molecular compounds and MOFs at ambient conditions and under high pressure**
	Focus Area 4 (SIG 7, 13), Microsymposia, Darwin
14:00 - 16:00	**MS 30 Hydrogen bonding from theory to applications** **Hydrogen bonding from theory to applications**
	Focus Area 2 (SIG 5, 11, 12), Microsymposia, Rio
14:00 - 16:00	**MS 14 Biomineralogical crystallography and bioinspired inorganic materials** **Biomineralogical crystallography and bioinspired inorganic materials**

Focus Area 3 (SIG 2, 3, 4), Microsymposia, Osaka

14:00 - 16:00 **MS 22 Beyond multipolar refinement**
Beyond multipolar refinement

Focus Area 5 (SIG 6, 8, 9), Microsymposia, Samarkand

14:00 - 16:00 **MS 45 Measuring data quality**
Measuring data quality

Keynote Lecture, Sydney

16:30 - 17:30 **Makoto Fujita**
Keynote 13
M. Fujita (University of Tokyo, Tokyo, JP)

Keynote Lecture, Singapore

16:30 - 17:30 **Olivier Thomas**
Mechanical properties of nanostructures in the light of synchrotron radiation
O. Thomas (Marseille, FR)

Keynote Lecture, Sydney

17:30 - 18:30 **Bob von Dreele**
Structure solution GSAS
R. von Dreele (Argonne National Laboratory, United States, US)

Keynote Lecture, Singapore

17:30 - 18:30 **Petra Fromme**
Time-resolved femtosecond crystallography opens a new era in Structure Biology
P. Fromme (Arizona State University, Tempe, USA, US)

Thursday, 01 September 2016

Poster Session, San Francisco

08:00 - 18:30 **Poster exhibition**

Keynote Lecture, Sydney

08:30 - 09:30 **Werner Paulus**
Keynote 10
W. Paulus (University of Monpellier, Montpellier, FR)

Keynote Lecture, Singapore

08:30 - 09:30 **Bob Cernik**
X-ray colour diffraction imaging
B. Cernik (The Mill-B10b School of Materials, Manchester, UK)

Focus Area 1 (SIG 1), Microsymposia, Sydney

10:00 - 12:00 **MS 9 Enzyme reactions and dynamics in crystals**
Enzyme reactions and dynamics in crystals

Focus Area 4 (SIG 7, 13), Microsymposia, Singapore

10:00 - 12:00 **MS 33 Hot structures of small molecules**
Hot structures of small molecules

	Focus Area 1 (SIG 1), Microsymposia, Darwin
10:00 - 12:00	**MS 1 SAXS in Structural Biology** **SAXS in structural biology**
	Focus Area 5 (SIG 6, 8, 9), Microsymposia, Rio
10:00 - 12:00	**MS 41 The use of X-ray, electron and neutron scattering in nanoscience** **The use of X-ray, electron and neutron scattering in nanoscience**
	Focus Area 2 (SIG 5, 11, 12), Microsymposia, Osaka
10:00 - 12:00	**MS 17 Crystal chemistry of C-bearing materials and minerals at extreme conditions** **Crystal chemistry of C-bearing materials and minerals at extreme conditions**
	Focus Area 3 (SIG 2, 3, 4), Microsymposia, Samarkand
10:00 - 12:00	**MS 25 Quasicrystal and approximant: structure and properties** **Quasicrystal and approximant: structure and properties**
	Focus Area 1 (SIG 1), Microsymposia, Sydney
14:00 - 16:00	**MS 8 Membranes and membrane interacting proteins** **Membranes and membrane interacting proteins**
	Focus Area 4 (SIG 7, 13), Microsymposia, Singapore
14:00 - 16:00	**MS 29 Molecular interactions in crystal packing and molecular assemblies** **Molecular interactions in crystal packing and molecular assemblies**
	Focus Area 3 (SIG 2, 3, 4), Microsymposia, Darwin
14:00 - 16:00	**MS 24 Inorganic and metal-organic magnetic structures** **Inorganic and metal-organic magnetic structures**
	Focus Area 2 (SIG 5, 11, 12), Microsymposia, Rio
14:00 - 16:00	**MS 16 Structure-property relationships in high pressure crystallography** **Structure-property relationships in high pressure crystallography**
	Focus Area 5 (SIG 6, 8, 9), Microsymposia, Osaka
14:00 - 16:00	**MS 40 New detectors for high energy x-ray applications** **New detectors for high energy x-ray applications**
	General Microsymposia, Microsymposia, Samarkand
14:00 - 16:00	**MS 50 History of ECA, history of crystallography: contributions to and of crystallography** **History of ECA, history of crystallography: contributions to and of crystallography**
	Keynote Lecture, Sydney
16:30 - 17:30	**Sven Lidin** **Keynote 15** S. Lidin (Lund University, Lund, SE)

	Keynote Lecture, Singapore	
16:30 - 17:30	**Martin Schmidt** **Keynote 16** M.U. Schmidt (University of Frankfurt, Frankfurt, DE)	
	Plenary Lecture, Sydney	
17:30 - 18:30	**Jean-Marie Lehn** **Plenary Session 2** J.-M. Lehn (Strasbourg, FR)	
	Opening / Closing Session, Sydney	
18:30 - 19:30	**ECM Closing Ceremony and Poster Prizes**	

Plenary Speakers

Prof. Ada Yonath

Prof. Ada Yonath (Weizmann Institute, Israel)
Nobel Prize winner in Chemistry along with V. Ramakrishnan and T.A. Steitz in 2009.

Ada E. Yonath, born on 22 June 1939 is an Israeli crystallographer best known for her pioneering work on the structure of the ribosome. She is the current director of the Helen and Milton A. Kimmelman Center for Biomolecular Structure and Assembly of the Weizmann Institute of Science. In 2009, she received the Nobel Prize in Chemistry along with Venkatraman Ramakrishnan and Thomas A. Steitz for her studies on the structure and function of the ribosome, becoming the first Israeli woman to win the Nobel Prize out of ten Israeli Nobel laureates, the first woman from the Middle East to win a Nobel prize in the sciences, and the first woman in 45 years to win the Nobel Prize for Chemistry. However, she said herself that there was nothing special about a woman winning the Prize.

Prof. Jean-Marie Lehn

Prof. Jean-Marie Lehn (Strasbourg, France)
Nobel Prize winner together with Donald Cram and Charles Pedersein in 1987 for his synthesis of cryptands.

Jean-Marie Lehn, born on September 30, 1939 is a French chemist. He received the Nobel Prize in Chemistry together with Donald Cram and Charles Pedersen in 1987 for his synthesis of cryptands. Lehn was an early innovator in the field of supramolecular chemistry, i.e., the chemistry of host-guest molecular assemblies created by intermolecular interactions, and continues to innovate in this field. His group has published in excess of 900 peer-reviewed articles in chemistry literature.

Satellite Meetings of the ECM-30

PSI Powder Diffraction School PDS2016 – Modern Synchrotron Methods

Where: Paul Scherrer Institute, Villigen, Switzerland

When: **22-26 August, 2016**

Accommodation: at the PSI guest house and nearby hotels and B&B

More information and registration: indico.psi.ch/conferenceDisplay.py

Powder-diffraction methods have demonstrated an ever increasing range of applications in materials science, chemistry, physics, life sciences and engineering.

Modern synchrotron-radiation methods not only provide data of exceptional quality, but have allowed previously inaccessible experiments to be performed. Along with determining the atomic structure and the relative abundance of crystalline phases in bulk samples, information on disordered materials, microstructural features, defects and their evolution in response to external stimuli over a wide range of timescales is now possible.

The school, with an updated in-depth programme, aims at giving a broad overview of all the modern possibilities using synchrotron radiation, starting with a general theoretical introduction to the various methods and applications. Hands-on practice with selected synchrotron XRPD experiments and exhaustive analysis of the collected data are the central part of the school and will provide the student with a solid fundamental understanding of these essential and versatile experimental techniques.

Organizers:
Antonio Cervellino, PSI, Switzerland, antonio.cervellino@psi.ch
Nicola Casati, PSI, Switzerland, nicola.casati@psi.ch

Robert F. Stewart School on Electron Density and Related Properties

Where: Faculté des Sciences, Université de Lorraine, Nancy, France

When: **23-26 August, 2016**

Accommodation: at the Université de Lorraine guest house

More information and registration:
crm2.univ-lorraine.fr/lab/fr/education/congres/ecm30-congress-satellite-school/

Focus: High resolution X-ray diffraction and polarized neutron diffraction are the most relevant methods for respectively modeling charge density and magnetic moment (spin) distributions. Combining both experimental methods in a joint refinement leads to a precise spin resolved electron distributions in magnetic materials.

The aim of this School is to teach all participants the basic knowledge about paired and unpaired electron density distributions using neutron and X-ray diffraction methods and to practice existing refinement software. This school is dedicated to electron density and its analysis with the emphasis on the combination of complementary experimental methods to enrich the electron density models leading to more complete description of the electronic behavior of crystalline solids. The school will end with a round table about application of topological analysis and electrostatic properties of a charge distribution in chemistry, biochemistry and physics. Also we will discuss the role of the spin density in material science and how to combine experimental and theoretical methods for a better electron density modeling.

Target Audience: The audience will be typically early career scientists e.g. assistant professors, post-doctoral research fellows, and graduate students of crystallography, medicinal chemistry, solid state and materials science, biochemistry, theoretical, quantum and computational chemistry.

The number of participants is limited to 50.

Organizers:
Piero Macchi, University of Bern, Switzerland, piero.macchi@dcb.unibe.ch
Mohamed Souhassou, Université de Lorraine, France,
mohamed.souhassou@crm2.uhp-nancy.fr

Crystallography in the Pharmaceutical Industry Workshop

Where: Biozentrum, University of Basel, Klingelbergstrasse 70, 4056 Basel, Switzerland

When: **Sunday, 28 August 2016, 2016, 9:00–15:30h**

Registration via the ECM-30 registration page

Registration Fee: CHF 50

Download the flyer with the preliminary programme here.

This satellite meeting will cover various aspects of modern day pharmaceutical crystallography and its contribution to drug design and drug development. We will provide have an informative mix of presentations and round table discussions.

Target Audience: The audience will be typically early career scientists e.g. assistant professors, post-doctoral research fellows, and graduate students of crystallography, biology, medicinal chemistry, biochemistry, theoretical, quantum and computational chemistry.

The number of participants is limited to 80.

Organizers:

Trixie Wagner, Novartis Institutes for BioMedical Research, Switzerland, trixie.wagner@novartis.com
Carien Dekker, Novartis Institutes for BioMedical Research, Switzerland, carien.dekker@novartis.com

Sascha Gutmann, Novartis Institutes for BioMedical Research, Switzerland, sascha.gutmann@novartis.com

The CSD Python API: A Foundation for Innovation

Where: Biozentrum, University of Basel, Klingelbergstrasse 70, 4056 Basel, Switzerland

When: **Sunday, 28 August 2016, 9:30–12:30h with lunch until 13:30h**

Registration via the ECM-30 registration page

Registration Fee: CHF 20.00

The Cambridge Structural Database (CSD) is the world's repository for small molecule organic and metal-organic crystal structures. As such, this chemically diverse database of more than 800,000 structures is a highly valuable resource for structural chemistry

research and education. The Cambridge Crystallographic Data Centre (CCDC) not only distribute the CSD but also provide a comprehensive set of software tools that enable the valuable structural data to be searched, analysed, visualised and explored.

This workshop will introduce attendees to the CSD Python API – a new platform providing programmatic access to the complete range of CSD data and functionality. The CSD Python API enables scientists to perform crystallographic and chemical data analysis through tailored scripts from within the Mercury interface, on the command-line or even through 3rd party software. The CSD Python API can also provide an excellent educational platform to engage undergraduates with Chemistry and Computing.

The CSD Python API workshop is ideal for researchers that have some basic familiarity with the CSD-System, but are interested in learning about more flexible and sophisticated ways to interact with CSD data and functionality; however, anyone is invited to attend. Attendees will not need to be expert in programming or scripting languages, but simply be comfortable with computer systems. Our experienced staff will be available to assist with any questions you might have and at the end of the workshop there will be an opportunity to trouble-shoot with the instructors. The instructors will remain for the duration of the ECM conference to provide any additional help and feedback that attendees might appreciate after the workshop.

The workshop is free, but all participants must pre-register through the ECM website for an administration fee of CHF 20.00.

Almost all ECM attendees will already have access to the CSD Python API through their institution's CSD-System licence, but if attendees do not already have a licence, we can provide short-term workshop licences in advance. Participants will be expected to bring along their own laptops and to have already installed the CSD-System, Python and the CSD Python API on their laptop prior to the workshop.

Organizers:

Peter Wood
CSD-System Product Manager, CCDC
wood@ccdc.cam.ac.uk

Steve Maginn
Director of User Services, CCDC
maginn@ccdc.cam.ac.uk

A Workshop on Methods in Crystallographic Computing

Where: Hotel Sonnenrain, Lossburg-Wittendorf, Germany

When: **25-28 August, 2016**

Accommodation: on site

More information and registration:
www.mrc-lmb.cam.ac.uk/harry/ecacomsig/freudenstadt.html

Following our successful Computing Schools held before ECM-28 (Warwick) and ECM-29 (Rovinj), SIG9 will hold a Workshop prior to ECM-30. The Workshop aims to bring developers together from across the main Crystallographic disciplines (Powder, Small Molecule and Macromolecular) to learn from each other and to cross-pollinate their ideas. To this end, we will have very few formal lectures with the emphasis on tutorials and small group seminars, so that methods can quickly and efficiently be propagated.

The Workshop will cover two full days and two part days - it starts on the afternoon of Thursday 25th August and finishes on the morning of Sunday 28th August. Transport will be provided between the Workshop's location and the ECM-30 site in Basel.

Organizers:
Harry Powell, MRC Laboratory of Molecular Biology, UK, harry@mrc-lmb.cam.ac.uk
Martin Lutz, Utrecht University, The Netherlands, m.lutz@uu.nl

High Data Rate MX Satellite Meeting

Where: Biozentrum, University of Basel, Klingelbergstrasse 70, 4056 Basel, Switzerland

When: **Friday, 2 September 2016, 2016, 9:00–16:00h**

Registration via the ECM-30 registration page

Registration Fee: CHF 20.00

This one-day satellite meeting will discuss issues in doing very high-data-rate macromolecular crystallography (High-Data-Rate MX). Scientists and programmers working to create methods to handle diffraction images produced by the Dectris Eiger-16M detector have recently discovered challenges. These challenges relate to speed and parallelism of reading the images, a problem that all of the software systems for data analysis must address in adapting techniques to keep pace with the rate at which diffraction images are produced. Developers and users of MX data processing software all need to consider this challenging task and adjust both software and data collection strategies appropriately.

This satellite meeting will be a follow-on to a workshop held 26-28 May 2016 at NSLS-II at Brookhaven National Laboratory and an informal session at the American Crystallographic Association meeting in Denver, Colorado in July 2016. It will be an excellent opportunity for members of the community to understand what has been done thus far to support efficient processing and to comment on what additional issues need to be considered. In addition to talks on the data formats and how they are handled in the major packages, there will be time for open discussion and recommendations for the future.

The number of participants is limited to 70.

Organizers:
Herbert J. Bernstein, Rochester Institute of Technology, USA, yayahjb@gmail.com
Robert M. Sweet, Brookhaven National Laboratory, USA, rsweet@bnl.gov
Nicholas K. Sauter, Lawrence Berkeley National Laboratory, USA, nksauter@lbl.gov

Young Crystallographers ECM-30 Satellite Meeting

Where: Pharmazentrum, University of Basel, Klingelbergstrasse 50, 4056 Basel, Switzerland

When: **Sunday, 28 August 2016, 9:00–15:30h**

More information and registration: ecanews.
org/mwp/groups/gig-01-young-crystallographers

We would like to invite young crystallographers and early career researchers to join us at our ECM-30 satellite meeting on Sunday 28th of August, 2016. At this event, you will have the opportunity to present your work, socialise and network with your peers in an informal and friendly environment. Oral and poster presentations from all aspects of crystallography will ensure that there is something for everyone's interests. We are looking forward to meeting you all.

Organizer:
Andrew Maloney, Cambridge Crystallographic Data Centre, UK,
maloney@ccdc.cam.ac.uk

SMARTER 5 Meeting – Structure elucidation by combining Magnetic Resonance, Computational Modelling and Diffraction

Where: University of Bayreuth, Bayreuth, Germany

When: **4 - 8 September 2016**

Accommodation: Hotels in Bayreuth (for further information visit the local homepage)

More information and registration: www.smarter5.uni-bayreuth.de

Materials Science and Engineering present increasingly challenging problems to scientists dealing with the elucidation of solid-state structures due to the raising complexity and hierarchical structuring of modern materials. In particular, without access to crystals suitable for single crystal X-ray diffraction, even today, unravelling the structure of such compounds is limited.

By combining different analytical techniques, each providing complementary information, we expect to be able to significantly improve the structure solution process in such cases. Therefore, the SMARTER meeting aims at bringing together scientists in the areas of solid-state magnetic resonance and other spectroscopic techniques, diffraction as well as modelling to resolve questions about how to optimally implement information from various techniques into a general strategy for ab initio structure determination of complex materials.

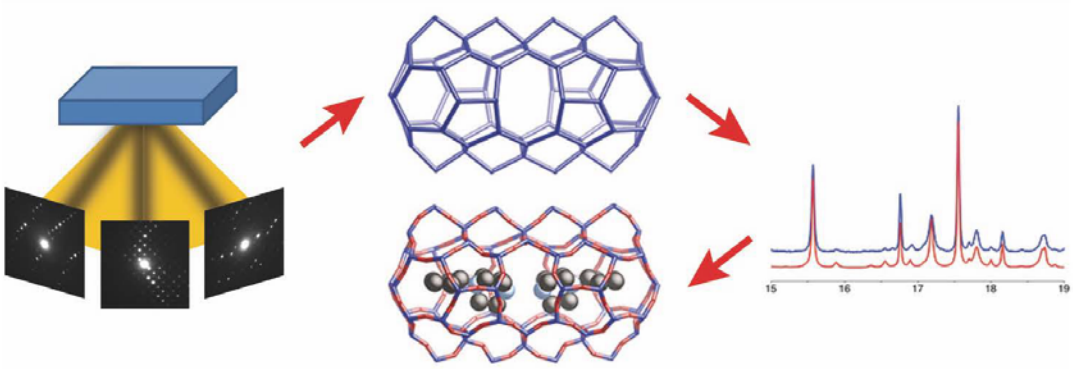
The conference in Bayreuth is the latest in a series of meetings designed to encourage cross-fertilisation across subject boundaries, with invited speakers chosen to reflect the diversity of approaches required to solve demanding structural problems, such as obtaining crystal structures from powdered samples or understanding disordered systems.

Organizers:
Brad Chmelka (Santa Barbara, USA)
Andrew Goodwin (Oxford, United Kingdom)
João Rocha (Aveiro, Portugal)
Jürgen Senker (Bayreuth, Germany), juergen.senker@uni-bayreuth.de
Renée Siegel (Bayreuth, Germany), renee.siegel@uni-bayreuth.de
Francis Taullele (Versailles, France)
Jonathan Yates (Oxford, United Kingdom)

Contact for the meeting
Email: smarter5@uni-bayreuth.de

ED-XPD Workshop - Combining Electron and X-ray Powder Diffraction Techniques for Structural Characterization

June 6-10, 2016, Stockholm, Sweden



General information

The workshop is intended for PhD students, postdocs and young researchers, who want to learn how electron diffraction (ED) and X-ray powder diffraction (XPD) can be combined to characterize the structures of polycrystalline materials. While the emphasis will be on using 3-dimensional ED data to solve a structure and XPD to refine it, the overlap of the two approaches (solving from XPD data and refining with ED data) will also be discussed. Lectures will cover basic crystallography, indexing, intensity extraction, structure solution, structure completion and structure refinement. There will also be computer labs to give the participants some hands-on exposure to selected data analysis software, and short demonstrations of ED and XPD data acquisition instruments.

Although basic crystallography will be reviewed briefly at the beginning of the course, some prior knowledge of the subject is needed for a participant to benefit from the workshop. If possible, participants should bring their own laptops (with Windows OS installed) for the computer labs. Researchers from all fields (chemistry, physics, biology, geology, materials science) are encouraged to apply.

Topics

Introduction to basic crystallography
3D electron diffraction techniques
Initial electron diffraction data analysis (indexing, intensity extraction)
Structure solution and refinement with ED data
Initial XPD data analysis (indexing, profile fitting, intensity extraction)
Methods of structure solution from XPD data
Structure completion using XPD data
Structure refinement using the Rietveld method

Speakers

Lynne McCusker Christian Baerlocher	Department of Materials ETH, Zurich, Switzerland
Lukas Palatinus	Institute of Physics, Prague, Czech Republic
Sven Hovmöller Wei Wan Xiaodong Zou	Berzelii Center EXSELENT on Porous Materials and Department of Materials and Environmental Chemistry Stockholm University, Sweden

Deadlines

April 4: Registration and student travel bursary application
May 15: Poster abstract

Contacts

Lynne McCusker mccusker@mat.ethz.ch	Wei Wan wei.wan@mmk.su.se	Xiaodong Zou xzou@mmk.su.se

Further information

http://www.mmk.su.se/ed-xpd-workshop

7th European Charge Density Meeting
Warsaw, Poland

26th June – 1st July 2016

ECDM 7

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Damian Trzybiński

SESSIONS AND INVITED SPEAKERS

ecdm7.chem.uw.edu.pl

Opening ceremony
Wolfgang Scherer, Augsburg University, Germany
Mark Spackman, University of Western Australia, Australia

Errors in experimental and theoretical approaches
Bartolomeo Civalleri, University of Torino, Italy - *Prediction uncertainty of density functional approximations for properties of crystals*
Julian Henn, University of Bayreuth, Germany - *Quality indicators for diffraction data*

New approaches in modeling of charge density and thermal motion
Lukáš Bučinský, Inst. Phys. Chem. and Chem. Phys., Slovakia - *Is relativity the hammer in charge density of heavy elements and their compounds? How big is the hammer how heavy is heavy metal*
Birger Dittrich, University of Göttingen, Germany - *Hydrogen ADPs from the invariom database and its recent extensions to model coordination compounds*
Dylan Jayatilaka, University of Western Australia, Australia - *Several new approaches to treat thermal motion*

From conceptual quantum chemistry to properties of molecules and crystals
Patrick Bultinck, University of Ghent, Belgium - *Information entropy towards atoms in molecules*
Angel Pendas, University of Oviedo, Spain - *Some emergent scalar and vector fields in Quantum Chemical Topology*
Lucjan Piela, University of Warsaw, Poland - *Can electrons attract each other?*

Electron diffraction – the future of charge density measurements?
Wolfgang Baumeister, Max Planck Institute, Germany - *Electronic cryomicroscopy: from molecules to cells*
Philip Nakashima, Monash University, Australia - *Towards the measurement of bonding in and around inhomogeneities in nano-composite materials*
Christopher J. Russo, MRC Laboratory of Molecular Biology, UK - *The physical basis for how specimen movement limits resolution in electron cryomicroscopy*

Challenging experiments for charge densities
John R. Helliwell, University of Manchester, UK - *Explaining my preference for a synchrotron bending magnet for charge density measurements*
Jacob Overgaard, Aarhus University, Denmark - *Electron density studies of molecular magnetic materials*

Charge densities in the life sciences
Kenneth Merz, Michigan State University, USA - *Using QM methods to refine biological structure*
Jean-Philip Piquemal, Sorbonne University, France - *GEM, a force field based on density fitting for molecular dynamics simulation*

Understanding & engineering solid state materials
Tonglei Li, Pardue University, USA - *Locality of intermolecular interactions in organic crystals*
Wladek Minor, University of Virginia, USA
Peter Politzer, University of New Orleans, USA - *Physical reality and mathematical modeling in describing noncovalent interactions*

Titles of lectures are tentative.

SPONSORS

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LOCATION
Centre of New Technologies of the University of Warsaw
Address: Banacha 2C, 02-097 Warsaw, Poland

DEADLINES
29 FEB 2016 Early Bird Registration
25 MAR 2016 Abstract Submission
30 APR 2016 Regular Registration

The 17th edition of Trends in **Nanotechnology International Conference (TNT2016)** is being launched following the overwhelming success of earlier Nanotechnology Conferences. The TNT2016 edition will be hosted by the Swiss National Center of Competence in Research (NCCR) 'Bioinspired Materials' and will take place in Fribourg (Switzerland).

This high-level scientific meeting series aims to present a broad range of current research in Nanoscience and Nanotechnology as well as related policies (European Commission, etc.) or other kind of initiatives (iNANO, nanoGUNE, MANA, GDR-I, etc.). TNT events have demonstrated that they are particularly effective in transmitting information and establishing contacts among workers in this field.
The TNT2016 structure will keep the fundamental features of the previous editions, providing a unique opportunity for broad interaction.

On the occasion of TNT2016 a Graphene one-day Symposium will be organized in collaboration with ICN2 (Spain) and will take place on September 06. The Graphene Day entails a plenary session during the morning and the afternoon session will be divided in track A (Graphene science driven) and track B (Graphene driven applications).

Deadlines

Abstract Submission (Oral request):	May 02, 2016
Student Grant (Travel bursary) Request:	May 02, 2016
Author Submission Acceptance Notification:	May 09, 2016
Student Grant Notification:	May 09, 2016
Early Bird Registration Fee:	May 20, 2016
Abstract Submission (Poster request):	June 10, 2016

http://www.tntconf.org/2016/

Sept 7-11, 2016
The AIC International Crystallography School 2016 aims at bringing together PhD students and young researchers from all over Europe and the rest of the world in a friendly and stimulating atmosphere, and introduce them to the fundamental concepts of polymorphism and phase transitions.

The School will address all aspects of crystallographic analysis of structural phase transitions, including basics of thermodynamics, kinetics and atomistic mechanisms ruling the processes. These concepts will be presented along with phenomenological theories for the treatment of phase transitions, with emphasis on the application of general theory to experimental data.

Phase transformations occur in most types of materials, including minerals, diverse organic, inorganic and hybrid compounds, pharmaceuticals, foods, ceramics and even crystalline viruses, and have been studied in almost all branches of science. Perovskites will be the teaching tool of AICS2016, with examples spanning from mineralogical to hybrid organic-inorganic samples. Therefore, the School is mainly directed to students working in the fields of chemistry, Earth sciences, mineral physics and materials science, and is as well of interest for metal-organic chemists and molecular crystallographers.

Ambition of the School is to give the attendees a unitary view, despite the many and apparently diverse materials such phenomena occur in, and the sometimes different terminologies used in the different fields.

Confirmed speakers: Mois I. Aroyo (Universidad del País Vasco, Bilbao, Spain), Tiziana Boffa Ballaran (Bayerisches Geoinstitut, Bayreuth, Germany), Michael A. Carpenter (University of Cambridge, UK), A. Mike Glazer (University of Oxford, UK), Lucia Maini (University of Bologna, Italy), Emanuela Schingaro (University of Bari, Italy), Serena C. Tarantino (University of Pavia, Italy), Marcus Müller (Dectris Ltd., Switzerland), Ian D. Williams (Hong Kong University of Science and Technology, Hong Kong)

Deadlines:	Bursary request: 15 May 2016
	Registration and payment: 12 June 2016
Location:	Rimini**,** Italy
Contact:	Serena C. Tarantino
	serenachiara.tarantino@unipv.it
	http://www.aicschool2016.org/

Calls for proposals

Beside normal proposals, most facilities allow urgent beam time requests. Please check directly with the facility.

Facility	Deadline(s)	Link
SLS: Swiss Light Source		
All except PX lines	15.03. and 15.09.	www.psi.ch/useroffice
Protein crystallography beamlines (PX)	15.04. and 15.10.	
SINQ: Swiss Spallation Neutron Source		
All instruments (regular calls)	15.05. and 15.11.	www.psi.ch/useroffice
SINQ/SLS		
Joint x+n proposals (MS/HRPT)	15.02.	www.psi.ch/useroffice
SμS: Swiss Muon Source		
All instruments	07.12. and 12.06	www.psi.ch/useroffice
ESRF: European Synchrotron		
long term proposals	15.01.2016	www.esrf.eu/
short term proposals	10.09.2016	UsersAndScience/
ILL: Institut Laue Langevin		
All instruments	Feb., Sept.	www.ill.eu
FRM II: Heinz Maier-Leibnitz		
All instruments	06.05.2016	www.mlz-garching.de/user-office
Rapid Access program	08.07.2016	www.mlz-garching.de/user-office
SNS Spallation Neutron Source Oak Ridge	various	neutrons.ornl.gov

Calendar of forthcoming meetings

(Please mail the missing information on meetings of interest to woerle@inorg.chem.ethz.ch)

			Application Deadline
2016			
May 22-27	Les Diablerets	Chromatin Structure & Fuction http://www.grc.org/programs.aspx?id=11783	April 24
May 27-June 5	Erice, Italy	The 49th Crystallographic Course: High Pressure Crystallography http://crystalerice.org/2016/	Dec. 6, 2015
June 5-10	Les Diablerets	Bioinspired Materials Materials and Biology from Many Perspectives http://www.grc.org/programs.aspx?id=15059	May 8
June 6-10	Stockholm, Sweden	ED-XPD Workshop Combining Electron and X-ray Powder Diffraction. http://www.mmk.su.se/ed-xpd-workshop	April 4
June 7-10	Basel	ICON Europe 2016. International Conference on Nanoscopy http://www.icon-europe.org/	April 1
June 12-15	Bari, Italy	EPDIC15 The European Powder Diffraction Conference http://www.ba.ic.cnr.it/epdic15	April 21
June 12-17	Les Diablerets	Biointerface Science http://www.grc.org/programs.aspx?id=14337	May 15
June 25-26	Les Diablerets	Intrinsically Disordered Proteins (GRS) http://www.grc.org/programs.aspx?id=16534	May 28
June 26 – July 01	Les Diablerets	Intrinsically Disordered Proteins (GRS) http://www.grc.org/programs.aspx?id=14532	May 29
Aug. 22-26	Villigen	Powder Diffraction School. Modern Synchrotron Methods https://www.psi.ch/pds2016	July 31
Aug. 28-Sept. 01	Basel	30th Meeting of the European Crystallographic Association http://ecm30.ecanews.org/ecm2016/home.html	July 6
Sept. 7-11	Rimini, Italy	Italian Crystallographic Association, 2016 International School Polymorphism, stability and phase transitions in crystals: theory, experiments, applications. http://www.aicschool2016.org/	June 12
2017			
Aug. 21-29	Hyderabad, India	The XXIV Congress & General Assembly of the International Union of Crystallography (IUCr-2017) www.iucr2017.org	to be announced

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Presently, the yearly membership fee is CHF 40 (CHF 10 for students).

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Phone private	+ ( )
Mobile phone	+ ( )
E-Mail	@
Interest	
Membership subsection crystal growth	Yes ( ) No ( )
Birth date	Day: Month: Year:
Language(s)	
Major research interests	
Highest degree received	
from university	
Present position	

Date: Place: ……..

Signature: ……

Please send the completed form to: Michael Wörle, ETH Zürich, Vladimir-Prelog-Weg 1, CH-8093 Zürich, Switzerland,
or use our online application form at www.sgk-sscr.ch
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