

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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Member of  
the Swiss Academy of Sciences

## SGK/SSCr NEWSLETTER

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## Dear members of the Swiss crystallographic society,

Again, crystallography has given rise to a Nobel Prize in Chemistry, this time on quasicrystals. What a wonderful discovery this was, and how much did the scientists have to convince themselves and others that the observed pattern upon diffraction was real and not due to "twinning". In Fribourg, we did a public viewing of the live streaming of the Nobel Prize announcement on October 5<sup>th</sup>. Together with my research group and some colleagues, we watched in awe the projection and were again very happy to learn that once more, crystallography was in the game. Many of my colleagues, non-crystallographers but chemists, were surprised about the "quasicrystals" and had never heard of them. I therefore wish to cite Walter Steurer's homepage:



"Three surprising discoveries in the past fifteen years, quasicrystals, fullerenes and ceramic high-T<sub>c</sub> superconductors are often quoted as milestones in the evolution of materials science. From a crystallographic point of view, quasicrystals represent the most challenging class of these new materials. Perfect structural order in connection with non-crystallographic symmetry caused a change of paradigm in crystallography. Higher-dimensional crystallography, a fascinating rapidly developing field, has become an extremely valuable tool for the study of aperiodic crystals...."

The stable quasicrystals known so far are mostly ternary intermetallic phases of composition A-TM(1)-TM(2) (A = Al, Ga, Ti; TM = transition metal), Mg-Zn-RE (RE = rare earth element) and binary Ta-Te. According to their diffraction symmetry, they are classified as icosahedral, decagonal or dodecagonal phases. Some quasicrystals can reach a degree of perfection equivalent to that of silicon. Nevertheless, it is still not clear, whether their structures are strictly quasiperiodic or only on average. Much more, even though several structure analyses of icosahedral and decagonal phases have been performed, not all the results are reliable. One reason is that the reproducible preparation of high-quality single crystals with equilibrium composition has not been ensured yet because the ternary phase diagrams around the stability regions of quasiperiodic phases are extremely complicated and still hardly known in most systems. Another reason is that inherent disorder has not been considered in structure analyses so far."

So, still a lot of research to be done and challenges to be solved here for our younger, next-generation crystallographers.

Enjoy the "new" symmetry and have a Merry Christmas and a good start into the new year.

Katharina Fromm





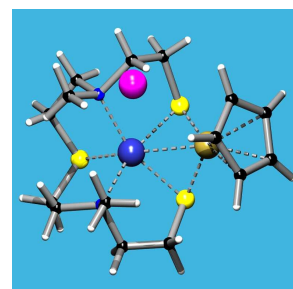
# The Zürich School of Crystallography - Bring Your Own Crystals

University of Zürich, Switzerland, June 13 - 26, 2011

Contributed by Tony Linden, Hans-Beat Bürgi, School Directors



The fourth Zürich School of Crystallography was held once again within the Institute of Organic Chemistry at the University of Zürich (UZH) and continued in the tradition of the previous Schools: teaching the essential theory and practical aspects of small-molecule single-crystal X-ray crystallography to 21 enthusiastic



participants from around the globe. The School ran very smoothly, was once again highly successful, and at the end of each day it was difficult to extract the participants from the practical classroom, because they were so engrossed in their new structures. Selected from a total of 50 applicants, the 21 participants this year comprised 3 MSc and 11 PhD students, 1 postdoc, 2 young academics, 2 more senior academics and 1 researcher. They came from Belgium, Brazil, Croatia, France, Germany, Italy, India, Nigeria, Poland, the Slovak Republic, Switzerland, Thailand, Turkey and Venezuela; 8 women and 13 men, all of them under 43. The 10 tutors were from the Universities of Basel, Bern, Geneva, Zürich, the EPF Lausanne, the ETH Zürich and the Institute of Physics, Prague.



The participants were all highly motivated and worked very hard throughout the School. The daily schedule contained lecture blocks and practical work in the morning and afternoon sessions. The practical work included hands-on experience in groups of two

at one of the five diffractometers available in the various chemistry institutes at the UZH and ETH Zürich. The tutorial exercises and structure refinements were done in the computer classroom of the Institute of Organic Chemistry, UZH. The participants were able to work on two example structures, which showed different degrees of difficulty, and then on the structure of the compound for which the participants had provided crystals in the lead-up to the School. On the final day of the School, each participant gave a ten minute presentation on their own structure. Those desiring credit points also had to sit a two-hour written exam and all candidates passed. Coffee and lunch breaks benefited from the pleasant environment of the university campus. Each day concluded with a half-hour review of the day's work and impressions of the participants and the tutors – an opportunity for the participants to air their feelings about how the School was progressing. Although many tutors live in Zürich, they attended the evening dinners in the hotel and were thus available for the participants all day. Many of the evening meals saw some tutors in lively discussions with the participants..

The central goal of the School is to equip each participant with enough knowledge of the theory and practice of X-ray diffraction and single-crystal small-molecule structure determination so that they could competently determine their own structures when they return to their home laboratory. From a practical point of view, this goal was approached by first introducing the participants to the WinGX software with the help of a pre-selected problem whose structure determination presented no crystallographic difficulties whatsoever. This gives us the opportunity to thoroughly explain the options of the software and how to interpret the information in the various input and output files. In other words, the participants get to see behind the button-pushing and learn about the actual procedures going on when various operations are performed, and then how to interpret whether or not the appropriate result has been obtained and other signs of success or unresolved problems. We do not choose the WinGX software over another for any specific purpose, but believe that whatever we use should be readily available to participants who might not be in a position to purchase commercial packages and that all tutors should know the software. This year, we included a short demonstration of one alternative software package (CRYSTALS) during the School.



The participant's own samples again provided a wide range of sample types (organic, organometallic, polymeric, metal-organic framework, intermetallic) and some of them revealed interesting challenges, such as twinning, disorder, disordered solvent molecules, unusual or ambiguous space groups, four molecules in the asymmetric unit,



and even simply the challenge of a very large polyoxotungstate molecule. Some of these were at the limit of complexity we like to have, as such challenges too easily distract from instilling the fundamentals into the students. All participants were able to complete their structures successfully.

This year, the half-day excursion was to the Swiss Light Source SLS and Swiss Spallation Neutron Source SINQ neutron spallation facility of the Paul Scherrer Institute. These facilities do their guided tours well and the participants were impressed by the facilities and the concept of "big science". Participants additionally had one free day in the middle of the course and one further free afternoon for personal study in preparation for the exam. Within the time/cost constraints of the School, it is not really feasible to offer a less intense programme, despite this being a frequent wish of the participants.

At the end of the course, every participant completed a questionnaire. The participants overwhelmingly agreed that the School was worthwhile. Most people found the balance of lectures and practical work appropriate. There is always eagerness for more examples and exercises, but we can only fit in so much in the time available and do not feel it is appropriate to sacrifice important theory content if the participants are to receive the complete picture. The evaluation of the lectures suggests the level of coverage is about right, but that a few things go a little fast or there is not enough time to digest the material, which we believe is a common trait of intense short courses. Despite the intensity of the School, all participants remained fully committed for the duration. Very positive feedback was received about the quality of the School overall, the friendliness, accessibility and approachability of the tutors, the organisation, the venue and the accommodation.



It was clear at the final banquet that many new friendships had been established and that the people, although exhausted, did not really want the experience to finish. At the end of the banquet, each participant received a certificate and a copy of "Crystal Structure Refinement, A Crystallographer's Guide to SHELXL" by Peter Müller, kindly donated by the IUCr and OUP. This ceremony resulted in all tutors being asked to sign all of the books and much photo-taking.

We are very grateful to the generosity of the sponsors: Institute of Organic Chemistry of the University of Zürich, Swiss Society of Crystallography, Cambridge Crystallographic Data Centre, European Crystallographic Association, International Union of Crystallography, Verlag Helvetica Chimica Acta, Oxford University Press, Agilent Technologies, Bruker AXS, Rigaku, Conférence Universitaire de Suisse Occidentale, and the X-ray Diffraction Services, CSEM, University of Neuchâtel, plus offers of support from the Chemistry Platform of the Swiss Academy of Sciences and the Swiss Chemical Society. We hope that we can count on their continued support for future Schools. We are already planning for the next School, which will be held in June, 2013.

## **The Zürich School of Crystallography 2011 – Report from a participant**

Contributed by Gregor Kiefer, EPFL, Lausanne, Switzerland

Having started my PhD at the École Polytechnique Fédérale de Lausanne on the topic of organometallic chemistry in November 2010, my advisor recommended that I visit the Zürich School of Crystallography. I had already grown quite a few crystals and all I got to know about the structure determination of each of my compounds was a colorful picture, which was presented to me by our crystallography service. So I sent in an application.

When I obtained a positive answer from the School Directors, including the awarding of a CUSO stipend, which covered the costs of the School, I felt very glad and excited. After having read the detailed course program, I was sure that I would learn a lot and that the course would be quite challenging and demanding.

On the first day, I realized that I was right with my expectations: The whole day was covered by lectures about the basics that we would need for our practical work which began already the next day. We determined the structures of two example molecules and then solved the structure of the crystalline compound we brought ourselves. During these practical sessions, one tutor was responsible for two students. This was extremely helpful for me as I had never worked with this software before. The tutors also answered questions on the lectures, were always open for discussions and supported the participants in their learning process in a very engaged way. After having solved and refined the structure, we learned how to validate it, had an instruction on the use of crystallographic databases, were shown how to publish the structure and presented our results in front of the tutors and the other participants.

One afternoon was reserved for an excursion to the Paul Scherrer Institute where we visited the synchrotron and neutron acceleration facilities. This trip was very interesting and I was impressed by the hugeness of the hall with all the machines and facilities dedicated for high end research.

Although practical work and lectures covered most of the time, there was still room for getting to know each other during the coffee breaks and the common meals. It was nice that the participants and the tutors interacted without any reservation – the

atmosphere was exceptionally friendly. Also the barbecue and the dinner at a Chinese restaurant were really awesome and I found many new friends from all over the world.

I had a wonderful time in Zürich and learned a lot! Now that I am back in my lab, I have already been able to solve some structures on my own and feel confident about what I am doing.

## **News for and from members**

### **We welcome the following new members of the SGK/SSCr:**

#### **Personal members**

Dr. Svitlyk Volodymyr  
(ESRF Swiss-Norwegian Beamline SNBL, 6 Rue Jules Horowitz  
FR-38042 Grenoble, France)

### **Travel grants for young SGK/SSCr members**

The committee will award the grants according to the following rules:

- Preference is given to PhD students
- Proof has to be given that there are no grants available covering the expenses
- A supporting letter by the supervisor of the applicant is necessary
- Applicant **MUST** be a member of our society

If you wish to apply for a travel grant, please send the above mentioned documents to the president of the SGK/SSCr anytime. You should have been member for at least one year before applying for a grant.

Travel grants are good opportunity allowing young scientist to profit from our society in a period with low income. By becoming afterwards a long-term member of our society, you can return this good-will later to the next generation.

Details for applications are given at:

<http://www.sgk-sscr.ch/TravelGrants.pdf>

### **Year of Crystallography, change to the year 2014**

Support of the United Nations for the International Year of Crystallography is crucial to our effort to underline the importance of crystallography worldwide. As 2014 is the earliest year for which UN support appears to be feasible, the IUCr Executive Committee has decided that the International Year of Crystallography should be changed to 2014. Work is in hand to have this item included on the Agenda for the September 2012 General Assembly of the UN.

Mike Dacombe, IUCr Executive Secretary

## **Annual Meeting of the SGK/SSCr in 2011 in Bern**

### **Minutes of the SGK/SSCr Annual Meeting 2011, Sep. 16**

University, Freiestrasse 3, Bern

1) Katharina Fromm opens the meeting at 13.00h.

The following agenda is approved by the members:

- a) Jahresbericht  
le rapport annuel
- b) Jahresrechnung  
les comptes annuels
- c) Aufstellung des Budgets für das kommende Jahr/  
le budget proposé pour l'année suivante
- d) Festsetzung des jährlichen Mitgliederbeitrages/  
le montant de la cotisation annuelle
- e) Wahlen/Elections:  
keine
- f) Anträge von Mitgliedern
  - 1) ECM Conference in Switzerland  
The board is proposing a Swiss bidding for the European Conference on Crystallography for 2015 and - in case of rejection - for a re-bidding for 2017
  - 2) other Motions of members

Quorum for final decisions:  $\geq 10\%$ , out of 166 members = 17 members  
27 members are present, quorum is reached.

2) Annual Report

- 2 Board meetings (January 2011 and June 2011)
- 3 Newsletters (No. 82-84)
- Members: presently 148 regular, 18 students
- Board News: Piero Macchi is our new treasurer (from Michael Hennig), Céline Besnard is responsible for our new web-site in preparation

3) New Members: listed in our newsletters

4) Travel Grants: rules are listed in our newsletters and on the web

5) Iphone application from Orlov/Gervais was awarded a Golden Mouse Award (see newsletter No.83, page 15)

6) Upcoming Annual Meetings: 2012 with the SPS in Zurich, 2013 a joint meeting with the Italian society is envisaged

7) ECA: Macedonia joins the European Crystallographic Association containing now 33 member countries.



## 8) ECM meeting 2016 in Switzerland:

The general assembly discussed this point after Switzerland having lost the bid for the 2015 meeting, basically due to the higher costs of the conference centre (over 200kEuro compared to 20kEuro of the competitor from Croatia) at the Annual meeting of the ECA at Madrid. Basel was presenting an excellent conference venue with perfect low cost air connections to all over Europe and low-cost accommodation possibilities also in France.

The general assembly decided to bid for the next meeting in 2016. An E-mail voting will decide finally. Presently, we would like to repeat the bidding of Basel with CONGREX as a technical organizer, but lobby for increased sponsoring. The bid should be announced on other conferences and the board will prepare a flyer. SKG/SSCr will keep 1000 to 2000 CHF ready for such advertisements.

## 9) Rechnung 2010/Budget 2011

### Rechnung 2010 und Revisorenbericht

#### **Last year**

Konten:

UBS	UBS	279-C0291110.0
Credit Suisse	CS	913652-00

Die Unterzeichneten haben Kenntnis genommen von der Jahresrechnung der Schweizerischen Gesellschaft für Kristallographie. Die Rechnungsprüfung betrifft die Periode vom 1. Jan. 2010 bis 31. Dez. 2010. Die Unterzeichneten stellen fest, dass die Abrechnung mit den vorgelegten Belegen übereinstimmt.

Am 31. Dez. 2010 ist der Stand der Konten und der Kasse:

UBS	SFr.	17'747.36
CS	SFr.	17'700.04
<u>Kasse</u>	<u>SFr.</u>	<u>1'566.40</u>
Summe SGK	SFr.	37'013.80

Die Unterzeichneten beantragen der Versammlung die Entlastung des Kassierers und der Revisoren für die geprüfte Periode.

Ort / Datum  
Basel, 15. März 2011

Unterschriften



Ch. Bärlocher  
(ETH Zürich)



K. Schenk  
(EPF Lausanne)

Die Rechnung 2010 wird genehmigt und der Vorstand wird durch die Vollversammlung entlastet.

## Budget 2011

	Applied for	Will be proposed to the SCNat by MAP
Annual Meeting	2500,-	2500,-
Poster Prizes	500,-	500,-
Travel Grants	1500,-	1500,-
Travel Costs and PR	5000,-	3000,-
ECA-Contribution	120,-	0,- (is anyhow taken over)
<hr/>		
TOTAL	9620,-	7500,-

Compared to 2011: 5000,- were granted

Compared to 2010: 4500,- were granted

The budget 2011 has been accepted by the assembly.

10) Annual Fees

No change, 30CHF for individuals, 10 CHF for students.

11) Elections

None.

Announcement: A new president is needed for 2012

12) Varia

Helen Stoeckli-Evans (Neuchâtel), Individual Members representative in the European Crystallographic Association (ECA) council has been contacted by the Young Crystallographers Interest Group (GIG) to find a representative for Switzerland. The person must be under 35 years old, be a practising crystallographer and must also be an individual member of the ECA.

**News:** Dr Aurélien Crochet of the University of Fribourg, has recently been appointed as the Swiss representative to the GIG. Any young crystallographers interested in joining the ECA and the GIG should contact Aurélien (aurelien.crochet@unifr.ch).

12) Closing

The meeting closes at 14.05h

## Annual SGK/SSCr Meeting 2011 in Bern

### 2011 Poster Prize

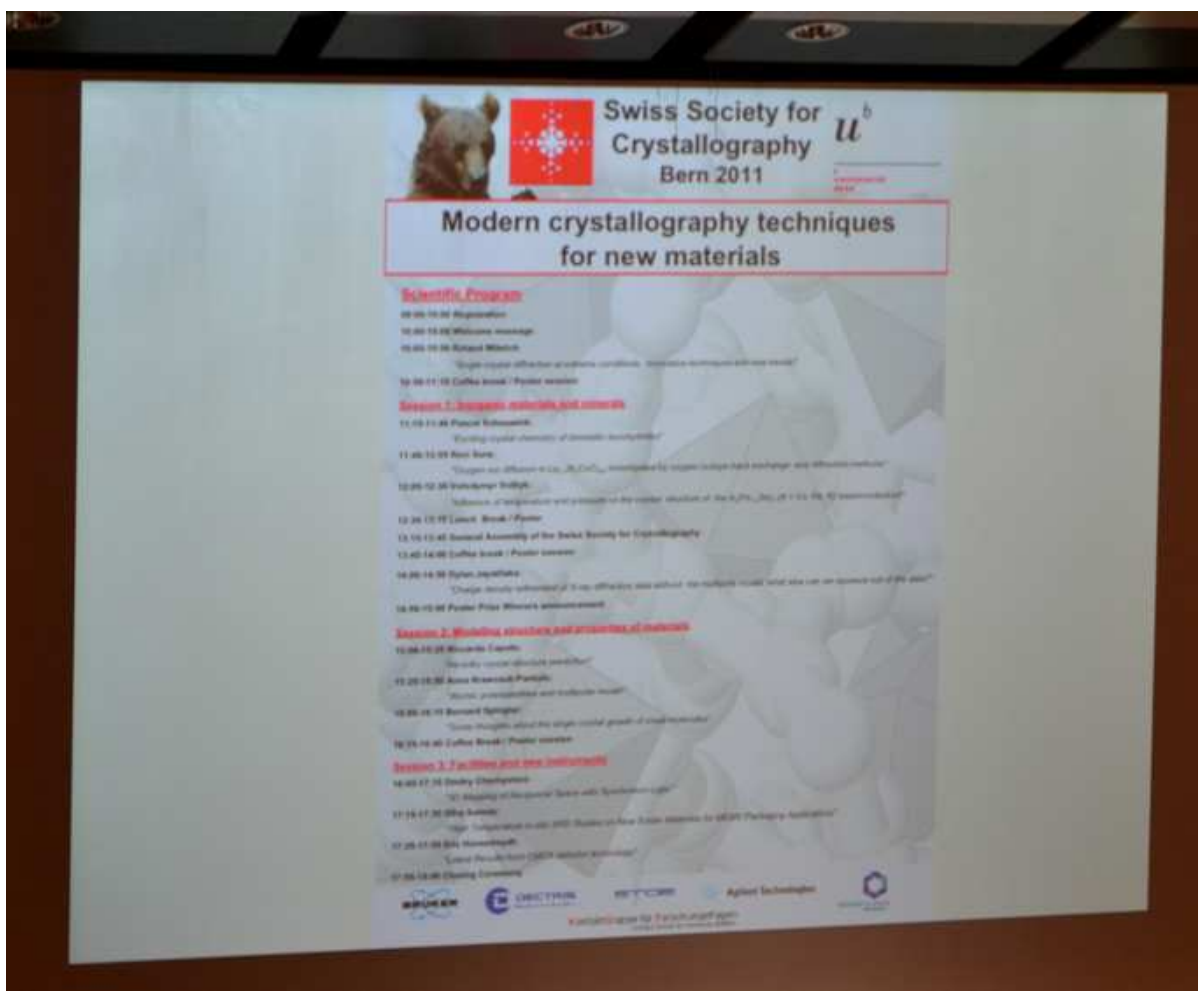
The poster prize goes to Rocco Caliandro and Qianli Chen. The Prize was sponsored by ScNat. We congratulate the prize winners and thank the ScNat for the support.

The two posters were entitled:

- *Modulation excitation spectroscopy adapted to crystallography*  
(by R. Caliandro et al.)
- *The Effect of Hydration and Strain on Ceramic Proton Conductors*  
(by Q. Chen, A. Braun, N. Bagdassarov, S. Clark, W. L. Mao, Z. Liu, V. Pomjakushin, T. Strässle, J. P. Embs, T. Graule, J. Mesot).

### Impressions from the Poster Session







## Planned Annual Meeting of the SGK/SSCr 2012

Preliminary announcement

The 2012 annual meeting of the SGK will take place on Thursday June 21, 2012 at the **ETH Hönggerberg, Zürich**. The meeting will be held parallel to that of the Swiss Physical Society (21-22 June, 2012). There will be a joint plenary lecture and a two hour microsposium on the history of crystallography to commemorate 100 years of the experiments by the team of von Laue.

In addition, the SGK will have further sessions of its own (topics to be announced) and the general assembly. SGK posters will be up all day, and there will be a joint poster session with the SPS in the late afternoon followed by a grill party.

Details of the SPS meeting will be posted on their website in January 2012:  
<http://www.sps.ch/en/home/>

Initial details of the SGK part of the meeting will be also posted soon at  
<http://www.oci.uzh.ch/group.pages/linden/sgk2012>

Registration for both meetings will be done collectively on the SPS website (deadline June 1, 2012).

The abstract deadline is March 15, 2012.

Our members are welcome to attend the activities of both societies over the two days.

Tony Linden

## **Crystal Growth Section**

### **Information from the International Organization for Crystal Growth (IOCG)**

Communicated by Roberto Fornari  
President of IOCG  
Director Leibniz Institute for Crystal Growth (IKZ), Berlin

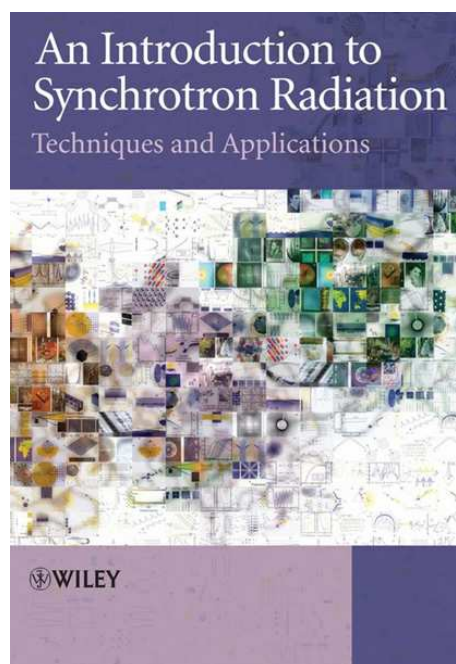
The restyling and update of the IOCG website ([www.iocg.org](http://www.iocg.org)) was one of the important points of the agenda 2010-13 deliberated at the last Council meeting in Beijing in August 2010. The Executive Committee became active in this sense and the web site has been completely re-designed with the professional help of Iwona Rozko from McMaster University. The IOCG web page will be used more extensively than in the past, in order to sharpen the international profile of IOCG and provide a useful source of information for the crystal growth community.

The national crystal growth groups/organizations are kindly requested to check if the corresponding link on the IOCG webpage and the names of their delegates are correct. Should you find mistakes of any type, please inform me. We shall eliminate them very quickly. IOCG would also appreciate if you could link your national website to the IOCG one.

You will see that the section "Crystal gallery" is still empty. It would be great to receive from you nice pictures of crystals, nanocrystals, defects, micrographs,..to make the site even more attractive.

As a second point please note that the European Network on Crystal Growth, established in October 2010, has started to operate. The first concrete step consists in the organization of the Europ. Conf. on Crystal Growth in June 2012 (<http://www.eccg4.org/>). Thanks to Kevin Roberts and other British colleagues for the outstanding work made for re-activating the ECCG series after many years of silence. The European Network also supports the Summer School on Crystal Growth in Brasov (Romania) in August 2012 (<http://rocam.unibuc.ro/intschool/index.html>) organized by Horia Alexandru. Both events are held under the auspices of IOCG, according to the Council's decision of reinforcing the regional activities on crystal growth.

## New Publications by our Members



This new book from Philip Willmott introduces the reader to the basic concepts of the generation and manipulation of synchrotron light, its interaction with matter, and the application of synchrotron light in the “classical” techniques, while including some of the most modern technological developments. As much as possible, complicated mathematical derivations and formulas are avoided. A more heuristic approach is adopted, whereby the general physical reasoning behind the equations is highlighted.

### **Key features of this book:**

A general introduction to synchrotron radiation and experimental techniques using synchrotron radiation

Contains many detailed “worked examples” from the literature

Of interest for a broad audience - synchrotrons are possibly one of the best examples of multidisciplinary research

## Crystallography for Health and Biosciences

Insubria International Summer School,  
Crystallography for Health and Biosciences

Chiostro di Sant'Abbondio, University of Insubria

we are happy to announce the opening of the registrations for the Insubria International Summer School, entitled "Crystallography for Health and Biosciences", to be held in the Sant'Abbondio Cloister in Como, Italy, from 19<sup>th</sup> to 23<sup>rd</sup> June 2012.

All details, including the list of speakers, the scientific program, instructions for registration and (thanks to the generous contribution of the International Union for Crystallography, of the International Center for Diffraction Data and of the Associazione Italiana di Cristallografia) for the request of grants for young researchers, are available on the School website



<http://scienze-como.uninsubria.it/iiss2012/IISS2012.htm>

Do not hesitate in contacting the School Secretariat  
([Simona.galli@uninsubria.it](mailto:Simona.galli@uninsubria.it); 0039-031-238.6627) for further information.

Deadlines:

December 1 <sup>st</sup> 2011:	Opening of the Registration
March 1 <sup>st</sup> 2012	Publication of detailed School Program application for a partial or a full Grant
March 15 <sup>th</sup> 2012	Feedback from the Organizers concerning the Grants allocations
April 15 <sup>th</sup> 2012	Registration

The chairs of the scientific and organizing committees

Norberto Masciocchi  
Antonella Guagliardi  
Simona Galli

## **Web-Plattform Educamint der SCNAT und SATW**

<http://www.educamint.ch>

### **Es ist soweit !**

Die neue Webplattform ist aufgeschaltet und Sie können ab sofort Ihre MINT-Nachwuchsförderungsangebote mittels online-Erfassungsformular eingeben bzw. die bereits zu Testzwecken eingegebenen Angebote überarbeiten und aktualisieren. Mit ein paar Klicks können Sie so Ihr Angebot einer breiten Lehrerschaft zugänglich machen und erhalten auch selbst einen besseren Überblick über ähnliche Angebote sowie eine gute Möglichkeit, Kontakte zu anderen Anbietern herzustellen.

### **Wie gehe ich bei der Eingabe vor?**

Wie bereits erwähnt, sieht die Erfassungsmaske auf der offiziellen Plattform anders aus als jene, die Sie bereits getestet hatten, doch die Felder und Funktionalitäten sind dieselben. Login und Passwort, die Sie im Sommer erhalten haben, sind nicht mehr gültig. Sie müssen sich zuerst neu mit Ihrer E-Mail-Adresse sowie Name und Vorname über *educa.ID* registrieren, bevor Sie Zugriff auf Ihre Projekte haben.

Kennen Sie noch weitere Angebote, die in die Datenbank von *educa.MINT* passen würden? Streuen Sie diese Nachricht breit, je vielfältiger und ausgewogener die Angebote sind, desto besser. Fordern Sie zudem die Nutzer/-innen Ihrer Angebote ab ca. Mitte Dezember 2011 aktiv auf, die Webplattform zu besuchen und eine Bewertung abzugeben zu den genutzten Angeboten. So erhalten Sie ein wertvolles Feedback und die Nutzer/-innen erhalten die Möglichkeit, weitere, ergänzende oder weiterführende Angebote kennenzulernen.

Werfen Sie also einen ersten Blick auf die neue Webplattform *educa.MINT* und geben Sie nach Möglichkeit auch uns ein Feedback zu Ihren ersten Eindrücken!

Bei Fragen und/oder Unklarheiten können Sie sich gerne übers Kontaktformular mit uns in Verbindung setzen. Wir helfen Ihnen gerne weiter.

Wir freuen uns auf zahlreiche spannende und hilfreiche Angebote.

Mit besten Grüßen

Clelia Bieler (SATW, Schweizerische Akademie der technischen Wissenschaften)  
Anne Jacob (SCNAT, Schweizerische Akademie der Naturwissenschaften)





## Calls for proposals

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

<b>Facility</b>	<b>Deadline(s)</b>	<b>Link</b>
<b>SLS: Swiss Light Source</b> All except PX lines Protein beam lines (PX)	March 15, Sept. 15 Feb. 15, June 15, Oct. 15	<a href="http://www.psi.ch/useroffice">www.psi.ch /useroffice</a>
<b>SINQ: Swiss Spallation Neutron Source</b> All instruments (regular calls)	May 15, Nov. 15	<a href="http://www.psi.ch/useroffice">www.psi.ch /useroffice</a>
<b>SINQ/SLS</b> Joint powder instrument (MS/HRPT)	Feb. 15, 2012	<a href="http://www.psi.ch/useroffice">www.psi.ch /useroffice</a>
<b>SμS: Swiss Muon Source</b> All instruments	Dec. 5	<a href="http://www.psi.ch/useroffice">www.psi.ch /useroffice</a>
<b>ESRF: European Synchrotron</b> All instruments, long term proposals	Jan. 15	<a href="http://www.esrf.eu">www.esrf.eu</a>
All instruments, short term proposals	March 1, Sept. 1	<a href="http://www.esrf.eu">www.esrf.eu</a>
<b>SNBL: Swiss Norwegian Beam Line</b>	March 1, Sept. 1	<a href="http://www.esrf.eu/UsersAndScience/Experiments/CRG/BM01/">www.esrf.eu/ UsersAndScience/ Experiments/ CRG/BM01/</a>
<b>ILL: Institut Laue Langevin</b> All instruments	Feb. 15, Sept. 15	<a href="http://www.ill.eu">www.ill.eu</a>
<b>FRM II: Heinz Maier-Leibnitz</b> All instruments	Jan. 27, 2012	<a href="http://user.frm2.tum.de">user.frm2.tum.de</a>
<b>SNS Spallation Neutron Source</b> Oak Ridge	Feb. 22, 2012	<a href="http://neutrons.ornl.gov">neutrons.ornl.gov</a>

## Calendar of forthcoming meetings

(Please mail missing information on meetings of interest to [Jurg.Schefer@psi.ch](mailto:Jurg.Schefer@psi.ch))

			<b>Abstract Deadline</b>
<b>2012</b>			
Gif-sur-Yvette France	Jan 18-19	7 <sup>th</sup> SOLEIL Users' Meeting <a href="http://www.synchrotron-soleil.fr/Soleil">http://www.synchrotron-soleil.fr/Soleil</a>	closed
Stoos CH	Jan 22-27	6 <sup>th</sup> International Symposium Hydrogen and <a href="http://www.empa.ch">http://www.empa.ch</a>	closed
Munich Germany	March 12-15	100 Years of X-Ray Diffraction <a href="http://www.dgk-conference.de">www.dgk-conference.de</a>	closed
May 7-10	Rigi Kulm CH	4 <sup>th</sup> MaMaSELF Status Meeting <a href="http://diffraction.web.psi.ch/mamaself-rigi-ch.htm">http://diffraction.web.psi.ch/mamaself-rigi-ch.htm</a>	May 1, 2012
June 17-20	Glasgow GB	Fourth European Conference on Crystal Growth (ECCG4), <a href="http://northernnetworkingeventscreatesend4.com">http://northernnetworkingeventscreatesend4.com</a>	Feb. 24, 2012
June 19-23	Como Italy	Insubria International Summer School, Crystallography for Health and Biosciences, <a href="http://scienze-como.uninsubria.it/iiss2012/IISS2012.htm">http://scienze-como.uninsubria.it/iiss2012/IISS2012.htm</a>	March 1, 2012
June 20-22	Zürich CH	SGK/SSCr Annual Meeting 2012, 100 Years of Diffraction Joint Meeting with the Swiss Physical Society <a href="http://www.oci.uzh.ch/group.pages/linden/sgk2012/">http://www.oci.uzh.ch/group.pages/linden/sgk2012/</a>	March 15, 2012
June 26-29	Luzern CH	10 <sup>th</sup> European Solid Oxygen Fuel Cells Forum <a href="http://www.efcf.com">http://www.efcf.com</a>	Nov. 30, 2011
July 4-6	Zürich CH	Combined Diffraction-Spectroscopy Workshop CSX2012, <a href="http://www.psi.ch/csx2012">http://www.psi.ch/csx2012</a>	June 11, 2012
July 15-18	Hamburg Germany	Science at FEL's: SRI 2012 Satellite Meeting <a href="http://science-at-fels-2012.desy.de/">http://science-at-fels-2012.desy.de/</a>	April 30, 2012
July 15-20	Hokkai-do Japan	17 <sup>th</sup> Sagamore conference on charge spin and momentum density, <a href="http://rsc.riken.jp/sagamore/home/">http://rsc.riken.jp/sagamore/home/</a>	to be announced
Aug. 7-11	Bergen Norway	ECM-27 <a href="http://ecm27.ecanews.org">http://ecm27.ecanews.org</a>	to be announced
Sept. 15-20	High Tatras Slovakia	6 <sup>th</sup> European Charge Density Meeting <a href="http://ecdm6.stuba.sk/?page=home">http://ecdm6.stuba.sk/?page=home</a>	June/July 2012
Nov. 18-23	Sydney Australia	SAS'2012: International Small Angle Scattering Conference <a href="http://www.sas2012.com/">http://www.sas2012.com/</a>	May 2012
Nov. 26-27	Villigen CH	PSI Powder Diffraction Summer School <a href="http://www.psi.ch/events/">http://www.psi.ch/events/</a>	to be announced

## 2013

June 9-22	Zurich CH	The Zurich School of Crystallography 2013 <a href="http://www.oci.uzh.ch/group.pages/linden/zsc">http://www.oci.uzh.ch/group.pages/linden/zsc</a>	Jan. 15, 2013
July 7-12	Moscow Russia	17 <sup>th</sup> International Zeolithe Conference <a href="http://www.izc17.com">http://www.izc17.com</a>	to be announced
July		Gordon research conference on Electron Distribution and Chemical <a href="http://www.grc.org/conferences.aspx?id=0000065">http://www.grc.org/conferences.aspx?id=0000065</a>	
April 14-19	Washington DC, USA	ARRS 2013 – Meeting of the American Roentgen Ray Society	to be announced
Aug. 25-29	Warwick UK	European Crystallographic Association, ECM-28 <a href="http://ecm28.org">http://ecm28.org</a>	to be announced

## 2014

August	Montreal Canada	IUCr-2014, 23 <sup>rd</sup> General Assembly and Congress of IUCr <a href="http://www.iucr.org/iucr/cong/iucr-xxiii">http://www.iucr.org/iucr/cong/iucr-xxiii</a>	to be announced
to be decided	Villigen CH	PSI Powder Diffraction Summer School	to be announced

## 2015

To be fixed	Rovinj Croatia	ECM-29 2015	to be announced
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## 2016

to be decided	To be decided	European Crystallographic Association, ECM-30 <a href="http://ecm30.org">http://ecm30.org</a>	to be announced
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## 2017

to be decided	Hyderabad India	IUCr-2017, 24 <sup>th</sup> General Assembly and Congress of IUCr <a href="http://www.iucr.org/iucr/cong/iucr-xxiii">http://www.iucr.org/iucr/cong/iucr-xxiii</a>	to be announced
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## Become a member of SGK/SSCr

If you are working in the field of crystallography, you will be interested to become a member of our society. For more information as well as online registration, please have a look on our website (<http://www.sgk-sscr.ch>). Presently, the yearly membership fee is sfr. 30 (sfr. 10 for students). For new members, the membership is free until the end of 2007. Please note: SGK/SSCr members can also apply to be a member of the subsection crystal growth (no additional charge) or for individual membership of the European Crystallographic Association, ECA (additional charge: 10 Euro).

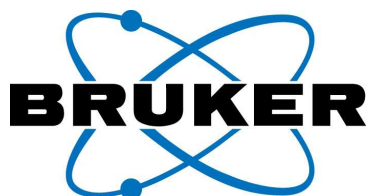
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<b>Membership subsection crystal growth</b>	Yes ( ) No ( )
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<b>Present position</b>	

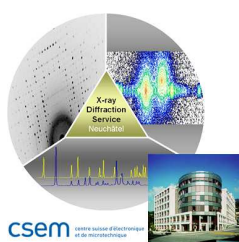
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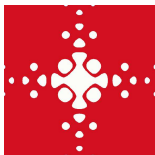


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