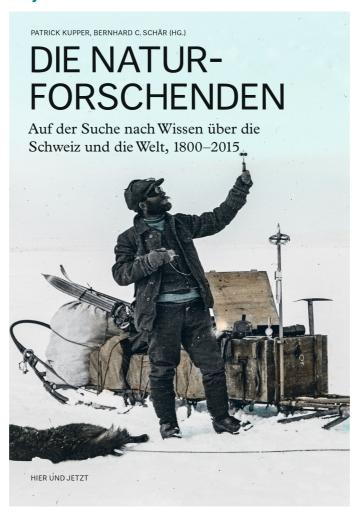


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Sektion für Kristallwachstum und Kristalltechnologie Section de Croissance et Technologie des Cristaux



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SGK/SSCr NEWSLETTER

ISSN 1662-5358 (printed edition) ISSN 1662-534X (electronic edition) **No. 92** Jan 2015

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Minutes of the SGK/SSCr General Assembly, held on 8.9.2014 at the EMPA-Akademie in Dübendorf

On the Cover:

Title page of the new book

"Die Naturforschenden" – "Les Naturalistes".

A dozen historians are publishing a review on the history of natural sciences in Switzerland at the occasion of the 200th birthday of ScNAT in 2015, details in this issue.

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The President's Page

The year of crystallography is over and I use this opportunity to thank all of you for the numerous contributions. Two events should be especially emphasised: The crystal growth competition organised by the University of Geneva bringing our field closer to the youngest generation (thanks to Didier Perret and his collaborators) and the monthly calendar presenting nice works of Swiss crystallographers all over the country in a very colourful and attractive way. Special thanks to Therese Lüthi, Michel Bonin and Kurt Schenk for making this possible, also the effort to translate the captions into the four Swiss languages including Italiano and Rumantsch. Many of us enjoyed this monthly changing desktop background on our computers.



The activities of Swiss crystallographers were reflected at the 23rd IUCr congress in Montreal by a huge number of presentations, posters and chairs, and also at the annual meeting at Empa Dübendorf, organized by A. Neels. The scientific program of our annual meeting was focusing on *Modern Crystallography in Applied Research* and was attended by more than sixty scientists.

In the past months, some of our colleagues passed away: Dr. Heinz Josef Weyer and Dr. Roland Prewo (members of the SGK/SSCr since 2012 and 1985) and also Professor Dr. Hans Wondratschek – one of the very few founding members of our society, who was with us since 1969. In the name of the society, I want to express my condolences to their relatives and friends.

2015 is the "UN Year of Light" (light2015.org) and therefore logically attaches to the year of crystallography as synchrotons and XFel's are major working tools in our field. Switzerland is very active here with the SwissFEL under construction. It also has been decided to study a possible SLS upgrade during 2017-20 (science case, technical design, expected performance, cost) with the possibility to realise it between 2021 and 2024. Having the possibility to make such investments is not self-evident, but a result of all the scientific work and the support by you and your colleagues.

A Happy New Year to you, and also to your families

Jürg Schefer

News for and from members

We welcome the following new members of the SGK/SSCr

Mlle. Noémie Voutier, University of Fribourg

Dr. Matthias Frontzek, Paul Scherrer Institut, Villigen

Mr. Erik Stronks, University of Zürich

Dr. Jun Han, Paul Scherrer Institut, Villigen

Prof. Claire Gervais, Berner Fachhochschule – Hochschule der Künste

Dr. Michela Brunelli, The Swiss-Norwegian Beamlines at ESRF, Grenoble, France

Ms. Luzia Germann, University of Bern

Dr. Aaron Finke, Paul Scherrer Institut, Villigen

Ms. Nadia Opara, Paul Scherrer Institut, Villigen

Mr. Gregor Hofer, ETH Zürich

ECM-30 Advertisement

We have produced two slides for promoting the ECM-30 conference. These are available on our home page. Please include these slides at the end of your seminars and talks, thereby helping us to spread the information (http://www.sgk-sscr.ch).

A Little Dictionary of Crystallography



Edited by André Authier and Gervais Chapuis

This 252-page paperback book is a printed snapshot of the *Online Dictionary of Crystallography*. It is a reference for authors and referees of IUCr Journals and for research professionals in general: but will also be useful to students and to the general public. Sample pages are available.

The book is now available for a short time at a discounted rate (9 GBP, 11 EUR). Copies may be purchased online at the URL http://tinyurl.com/little-dictionary.

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 at any time. You should have been a member for at least one year before applying for a grant.

Travel grants are a good opportunity for young scientists to profit from our society during a period when they have low income. By subsequently becoming a long-term member of our society, you can return this good-will to the next generation.

Details for applications are given at: http://www.sgk-sscr.ch/TravelGrants.pdf

Conference:

23rd Annual Conference of the German Crystallographic Society (DGK) 2015

Venue and Date:

Institute of Geoscience Georg-August University Göttingen Goldschmidtstraße 1-3 37077 Göttingen/Germany

16 - 19 March 2015

Organizer: German Crystallographic Society (DGK)

Conference Chair:
Prof. Dr. Ralf Ficner
Georg-August-University Göttingen
Justus-von-Liebig-Weg 11
37077 Göttingen

Conference Language The official conference language is English. **Conference Homepage** www.dgk-conference.de

Conference Organization/Contact

Conventus Congressmanagement & Marketing GmbH Felix Angermüller
Carl-Pulfrich-Straße 1
07745 Jena (DE)
Phone +49 (0)3641 3116-301
Fax +49 (0)3641 3116-241
felix.angermueller@conventus.de
www.conventus.de

The 29th European Crystallographic Meeting





Register at:

http://ecm29.ecanews.org

Follow the news at:

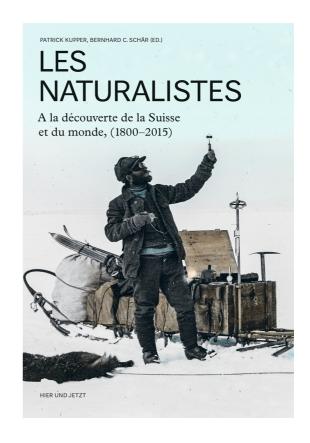
f29thEuropeanCrystallographicMeeting

Abstract submission deadline: 23rd March 2015
Early registration deadline: 23rd April 2015

200 Years of ScNAT - Swiss Academy of Science

Buch «Die Naturforschenden», Verlag Hier und Jetzt Vergünstigt bestellen → bis 31. Januar 2015

Wir freuen uns mit Ihnen in ein ereignisreiches 2015 einzusteigen. Aus Anlass des 200. Geburtstages **SCNAT** haben über ein Dutzend Historikerinnen und Historiker die Geschichte von 200 Jahren Naturwissenschaften in der Schweiz unter die Lupe genommen. Das dabei entstandene Buch Naturforschenden» können Sie – und die Mitglieder von SCNAT-Organisationen – bis am 31. Januar 2015 stark vergünstigt bestellen. Bereits ab Mitte Dezember lade ich Sie zudem dazu ein, einen Blick in die erste Fassung des Portales Naturwissenschaften Schweiz zu werfen: http://www.naturwissenschaften.ch.



Die Schweiz ist global vernetzt. Zu verdanken hat sie dies nicht zuletzt den Schweizer Naturforschenden, die seit dem 18. Jahrhundert die Welt erkundet und sich grenzüberschreitend mit anderen Wissenschaftlern ausgetauscht haben. Die Forschenden selbst sind jedoch kaum bekannt. Das Buch schliesst diese Lücke. 15 Autorinnen und Autoren beleuchten die Biografien von Naturwissenschaftlern und Naturwissenschaftlerinnen. Sie erklären, wie sie zu ihren Entdeckungen, Einsichten und Irrtümern kamen und wie sie dabei in den letzten 200 Jahren den Wissenschaftsstandort Schweiz aufbauten. Bekannte historische mit Persönlichkeiten wie Louis Agassiz oder Albert Einstein werden neu beleuchtet, bislang vernachlässigte Figuren wie Clémence Royer oder Boukary Porgo werden in ihrer Bedeutung für die Naturwissenschaften und die Schweiz sichtbar. Das Buch erscheint im Mai 2015 auf Deutsch und Französisch. Jetzt vergünstigt bestellen das Angebot gilt bis am 31. Januar 2015! Mitarbeitende und Mitglieder der SCNAT ihrer Fachgesellschaften, kantonalen und regionalen Gesellschaften, Kommissionen, Foren und Landeskomitees sowie Beteiligte an «Forschung live» können das Buch nun für sich und ihre Verwandten und Bekannten für 30 statt 49 CHF bestellen.

Bestellungen mit Angabe der gewünschten Sprache:

Per E-Mail an: admin@hierundjetzt.ch

oder per Post an: Verlag Hier und Jetzt, Langacker 16, Postfach, 5405 Baden

Minutes of the SGK/SSCr General Assembly, 8.9.2014

EMPA Academy, Dübendorf, Monday 8. Sept. 2014

Annual General Assembly opened at 13.05;

Chair: Jürg Schefer, President

Welcome by the President.

Agenda presented as published in Newsletter no. 91. No changes requested.

A. Linden elected as minute taker.

32 in attendance – 10% quorum reached (minimum of 16 required)

Minutes of the previous meeting as printed in the Newsletter No. 89 No comments. Denis Sheptyakov thanked for his efforts preparing them. Approved.

Annual report presented by the President

Activities for the year:

- 2013 annual meeting together with the Italian and Spanish Crystallographic Associations, MISSCA-2013, Como, Italy
- Weizmann lecture in Fribourg
- Two newsletters published (nos. 89, 90)
- 2 board meetings: Bern and Basel (together with ECM local committee)
- Participation in MAP Meeting of the Academy of Science, April 2014
- IYCr-2014 activities included opening ceremony in Paris, special issue of postage stamps, calendar, NZZ article, Chimia special issue, crystal growth competition, article in Le Journal, SPS Large Scale Facility, exhibition in Fribourg.

Conferences & Courses:

- Financial support to the Zurich School of Crystallography 2013
- Annual meeting in Como 2013
- 2 travel grants to young students (reimbursed by ScNAT)
- Support for J. Schefer / K. Fromm to attend the ECA annual meeting in Montreal (reimbursed by ScNAT)
- Support for R. Cerny, P. Macchi to attend as Swiss delegates to the IUCr meeting in Montreal (reimbursed by ScNAT)

Membership statistics presented: 160 individual & 9 corporate members

Brief summary of IUCr Montreal meeting presented

- Highlights were: the 10th Ewald Prize to T. Janssen & A. Janner, the latter being a long-time member of the SGK and the Nobel laureate lecture by D. Shechtman
- IUCr 2020 to be in Prague. IUCr president is M. Hackert. P. Macchi is a new chair of Commission on charge, spin and momentum density
- Everyone encouraged to make or update their entry on the World Directory of Crystallographers: www.iucr.org/people/wdc

News from the ECA meeting in Montreal presented.

- ECM 31, 32 in Oviedo, Spain, and Vienna, Austria.
- ECA would like more interactions with the SIGS/GIGs to receive suggestions for conference microsymposia (contact persons: www.ecanews.org/sig_officers.php)
- Everyone encouraged to take out a personal membership of the ECA (only 10 Euros/year).

Financial report presented by the President in the excused absence of the Treasurer (P. Macchi)

Full details in the SGK/SSCr Newsletter no. 91.

- CHF 960.43 surplus for 2013, balance on account is CHF 40'339.
- Financial reports approved by the auditors.
- Meeting approved the financial report unanimously.

2014 Budget presented by the President.

Full details in the SGK/SSCr Newsletter no. 91.

Approved unanimously. Piero Macchi thanked for his efforts as treasurer.

Setting of Annual Membership fee.

Recommended no change: CHF 30/10/130 for regular/student/corporate. Approved unanimously.

Election of Office Bearers.

- Existing Board presented.
- No new candidates proposed.
- The President mentioned that some board members will reach their maximum allowed term in 2015 and that proposals for new Board members will be required. Please make suggestions at any time to the board.
- H. Grimmer recommended that as 3 Board members are reaching their maximum terms, the Board should actively try to attract new members to the Board.
- Yousef Asadi volunteered to join the board in 2015.
- Existing Board approved unanimously under the understanding that some members are to be replaced within one year and nominations for new board members must be presented at the next annual meeting for election.
- J. Schefer approved unanimously to continue as SGK President until the end of his term in 2015. A new president has to be elected in 2015.
- Auditors: B. Spingler & K. Schenk approved unanimously.
- IUCr delegates: P. Macchi, R. Cerny approved unanimously.
- ECA delegate: J. Schefer approved unanimously.

News on ECM-30 Basel (2016) preparation.

A list of preparatory meetings held so far presented. List of Local Organizing Committee presented

(Chair: K. Fromm). Updated list can be added to. No discussion. Suggestions for microsymposia welcome through the SIG's and GIG's. Please inform in parallel the local organizers.

Next SGK/SSCr annual meeting 2015

Suggestion made to have it at a Fachhochschule, e.g. Biel/Bienne. Suggestions welcome. If no proposal received by the end of November 2014, the Board to make contacts with possible venues and organizers.*

Any other business (AOB)

Hans Scheel made the point that crystal growth activities and teaching thereof have diminished. We have excellent instruments, but samples are often poor, so the efficiency of the big instruments is poor. There is a lack of experienced people to run the machines. Proposed that ETH should be encouraged to develop a training programme to educate "Crystal Technologists". Crystallization Technology Education could be supported by the SGK and recommended to the ETH.

H.-B. Bürgi asked the Board about the proposal he made in Como that surplus SGK funds be used to support a special lecture and medal. Has any further action been taken yet?

Answer: none yet, will take the matter up again.

H.-B. Bürgi asked if the SGK is liable for losses incurred for ECM-30. Answer: will have to check by-laws.

A. Linden asked if there was a loss of, say CHF 80,000, who pays? Answer K. Fromm: Hoping to get letters of deficit guarantee from Swiss universities. 750 participants needed to break even. The President said he expects to obtain good sponsorship support.

The President thanked everyone for attending and closed the meeting at 14¹⁰h.

A. Linden, 18.9.2014.

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^{*} Later remark: the meeting will be held at CSEM Neuchâtel, Sept. 2015.

Conference report: 23rd Congress and General Assembly of the IUCr, Montreal, Canada, August 5-12, 2014 Discovering "jumping crystals" in Montreal

Contributed by Sonja Kracht,

PhD student at the Department of Chemistry, University of Fribourg.

One hot topic this year in Montreal during the IUCr was the further investigation of the already known phenomenon of "jumping crystals". The reasons for the physical movement are thermosalient⁽¹⁾ or photosalient⁽²⁾ effects in the crystal. The reaction of the crystal to stimuli can include shape changes like bending or twisting and locomotion like jumping or rotation. In same cases, it can even lead to cracking and splitting of the crystal. ⁽³⁾

A group from the New York University Abu Dhabi around P. Naumov presented the latest approaches in investigating the mechanism and quantifying the physical movements of these crystals. With the help of 2D snapshots from high-speed cameras the locomotion and possible splitting of the crystals were examined and tried to quantify while X-ray analysis before and after applying the stimulus gave additional information about the structure and phase changes in the crystal itself. (2) For a visual demonstration please have a closer look at the recently published following movie by "New Scientist" http://www.youtube.com/watch?v=3mAhs9Tdd1A.

An example for a jumping crystal, showing the photosalient effect, was the complex $(Co(NH_3)_5(NO_2))Cl(NO_3)$. When irradiated with UV light the binding site from the nitrite ligand to the central cobalt ion is exchanged. Binding with the nitrogen atom first, the irradiation breaks this coordination bond and allows the ligand to rotate so that it will exchange binding sites to one of its oxygen atoms. Due to this rotation strain is induced in the crystal and can only be released by locomotion and fractioning of the crystal. The intensity of the physical movement is dependent on a few parameters like the duration and intensity of the irradiation and the crystal size. Because the strain in the crystal is released all at once, high-speed cameras attached to a microscope are needed to visualize this motion. Due to their size smaller crystals flip sooner than larger ones upon stimuli. Playing with the intensity of the irradiation demonstrated that high intensities lead to splitting of the crystal while weaker intensities induce rolling or jumping.

A detailed understanding of the process of converting thermal or light energy into a mechanical response could be of great interest in building device components in the future. We are looking forward to hear, and in the meantime read, more about the progress in this fascinating field, perhaps even at the ECM-30 in Basel 2016.

- (1) Z. Skoko et al., JACS 2010, 132, 14191.
- (2) P. Naumov et al., Angew. Chem. Int. Ed. 2013, 52, 9990.
- (3) N. K. Nath et al., Cryst. Eng. Comm. 2014, 16, 1850.

Impressions of the Annual SGK/SSCr Meeting 2014 at Empa in Dübendorf, 08.09.2014

2014 Poster Prize

The poster prize goes to Nadia Opara from the PSI. The Prize was sponsored by ScNat. We congratulate the prize winner and thank the ScNat for the support.

"Membrane supports for X-FEL based protein crystallography"

N. Opara^{1,2}, C. Padeste¹, T. Braun², H. Stahlberg²

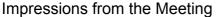
¹Paul Scherrer Institute, 5232 Villigen, Switzerland

²C-CINA, University of Basel, Switzerland











Julian Stangl (invited talk)



Steven Peetermans







Xavier Maeder Erik Stronks



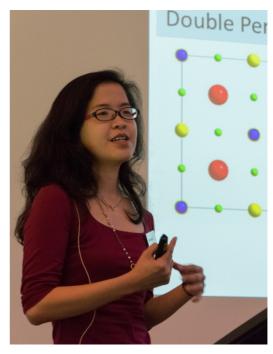
Jürg Schefer



In the audience



Luc Patthey



Yolanda Sadikin



Aurélien Crochet



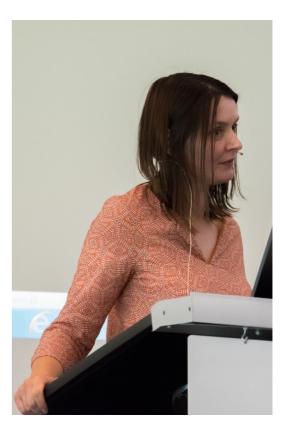
Arndt Remhof (invited talk)



Jürg Schefer, Alex Dommann & Luc Patthey







Céline Besnard



During the breaks



Antonia Neels



Visit to the Center for X-ray Analytics



In Memoriam Hans Wondratschek (1925-2014)

Hans Wondratschek, professor emeritus of crystallography at the University of Karlsruhe, died on Sunday, October 26, 2014. He was a member of the Swiss Society for Crystallography from its beginnings and participated for many years in its scientific meetings. His German colleagues being better qualified to appreciate his many important scientific contributions, I shall emphasize his close ties to crystallography in Switzerland.

In October 1968, Werner Nowacki organised in Bern the 10th discussion meeting of the section for crystal science of the German Mineralogical Society. Hans Wondratschek presented



there a keynote lecture "Neuere Ergebnisse der mathematischen Kristallographie". By analogy with Germany, most Swiss crystallographers were members of the Swiss Mineralogical Society at that time. On Nowacki's initiative the Swiss Society for Crystallography was founded a month later. I do not know whether Hans Wondratschek was among those who met in Bern on November 9, 1968; the earliest entry year mentioned in the records of our society is 1969, and he joined then.

Hans Wondratschek was born in Bonn in 1925, where he studied at the university, passing the examination as teacher of chemistry and mathematics and obtaining his doctorate in 1953 with a thesis in mineralogy. He then worked for five years under Heinz Jagodzinsky at the Max Planck Institute for silicate research in Würzburg before becoming an assistant of Fritz Laves in Zürich, where he wrote a number of publications on IR absorption of quartz together with Fritz Laves and Georg O. Brunner. With Alfred Niggli, he investigated generalized point symmetries, which they called crypto-symmetries. It was Alfred Niggli who drew his attention to a publication by A.C. Hurley on the crystal classes in 4-dimensional space, a theme that laid the basis for Wondratschek's later research on crystallography in Euclidean spaces of higher dimensions.

From Zürich he returned to Bonn, where he submitted his habilitation thesis on pyromorphites in 1961. His next station was Freiburg im Breisgau, where he taught crystallography as a "Privatdozent", until, in 1964, he succeeded Heinz Jagodzinsky as professor of mineralogy in Karlsruhe. There he published on pyromorphites, the structure of silicate glasses and later on sanidines, but his main interest was in symmetry aspects of crystallography. An early paper on subgroups of space groups was written in 1969 together with Edgar Ascher (Battelle Institute Geneva) and his former diploma student Volker Gramlich (ETH Zürich). Hans Wondratschek very successfully collaborated with the mathematician Joachim Neubüser, first on maximal subgroups of space groups, then for many years on space groups in 4-dimensional space.

Many publications between the mid-seventies and the mid-nineties dealt with orbits of space groups, to which also the book "The non-characteristic orbits of the space groups" by Peter Engel (Bern), Takeo Matsumoto, Gerhard Steinmann and Hans Wondratschek was devoted.

Hans Wondratschek was a member of the prestigious ad-hoc committee of the IUCr on the nomenclature of symmetry. An addendum to two of its reports was published by Howard Flack (Geneva), Hans Wondratschek, Theo Hahn and S.C. Abrahams.

Beginning in 1988 and continuing long beyond retirement he organized with Theo Hahn many summer schools on the "Symmetry of Crystals", where the students were introduced to using the wealth of information contained in volume A of the "International Tables for Crystallography".

At that time started also his very fruitful collaboration with Mois Aroyo on irreducible representations of space groups, which continued when Aroyo moved from Sofia to Bilbao and became involved with the development of the Bilbao Crystallographic Server. The research of Hans Wondratschek on subgroups of space groups culminated in volume A1 of the "International Tables for Crystallography" (2004), which he edited together with Ulrich Müller. Both, the crystallographic server and volume A1 are precious tools for crystallographic research and both profited a lot from the collaboration between Hans Wondratschek and Mois Aroyo.

The award of the "Carl-Hermann-Medaille" by the German Crystallographic Society in 2001 recognized Hans Wondratschek's many outstanding contributions to crystallography during his scientific career.

Let me end by telling you what Hans Wondratschek meant for me. As a physicist who got involved with crystallography only after my doctorate, I owe my deeper knowledge of space group symmetry mainly to his publications and lectures, whose clear and didactically outstanding structure I admired. Later, when I was asked to teach "Crystallography for physicists" in Zürich, I based my lectures in the first years to a considerable extent on a script that he had given to me with the generous permission to make such use.

I am grateful to Hans Wondratschek for the interest he showed in my research. I always enjoyed meeting him at conferences and like to recall the school organized by the working group "Theoretical crystallography" of the German Crystallographic Society in April 2000. Two days were devoted to the representation theory of point and space groups, which he presented together with Mois Aroyo in excellent lectures alternating with very instructive exercises.

I esteemed Hans Wondratschek as a modest person, interested in the work of his colleagues and always ready to help.

Hans Grimmer

I am grateful to Klaus Wondratschek for the picture of his father, taken by Daniel Warnicke.

Calls for proposals

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

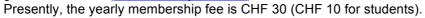
Facility	Deadline(s)	Link
SLS: Swiss Light Source All except PX lines Protein crystallography beamlines (PX)	March 15, Sept. 15 Feb. 15, June 15, Oct. 15	www.psi.ch/useroffice
SINQ: Swiss Spallation Neutron Sour	****	
All instruments (regular calls)	May 15, Nov. 15	www.psi.ch/useroffice
SINQ/SLS Joint x+n proposals (MS/HRPT)	Feb. 15, 2015	www.psi.ch/useroffice
SµS: Swiss Muon Source All instruments	Dec. 9, June 10	www.psi.ch/useroffice
ESRF: European Synchrotron long term proposals short term proposals	Jan. 15 March 1, Sept. 1	www.esrf.eu/ UsersAndScience/
ILL: Institut Laue Langevin All instruments	Feb., Sept.	www.ill.eu
FRM II: Heinz Maier-Leibnitz All instruments	Aug., 2015	user.frm2.tum.de
SNS Spallation Neutron Source Oak Ridge	various	neutrons.ornl.gov

Calendar of forthcoming meetings (Please mail the missing information on meetings of interest to Jurg.Schefer@psi.ch)

			Application Deadline
2015			
Mar. 1 – Apr. 1	Grenoble France	HERCULES 2015: Higher European Research Course for Users of Large Experimental Systems hercules-school.eu	in the past
Mar. 16-19	Göttingen Germany	23rd Annual Conference of the German Crystallographic Society (DGK) 2015 www.dgk-conference.de	in the past
May 25-28	Como Italy	Total Scattering for Nanotechnology on the Como Lake www.toscalake.com	now open
Jun. 5-14	Erice Italy	The 48th crystallographic course, Erice, Italy www.crystalerice.org/Erice2015/2015.htm	in the past
Jun. 7-20	Zurich Switzerland	Zurich School of Crystallography – Bring Your Own Crystals www.chem.uzh.ch/linden/zsc/	20.01.2015
Jun. 14-18	Cavalese- Trentino, Italy	DSE 2015 – 100 Years of Debye Scattering Equation dse2015.org	As long as vacant places are available
Jun. 30 – Jul. 03	Lucerne Switzerland	5th European Pefc & H2 Forum www.efcf.com	now open
Aug. 23-28	Rovinj Croatia	The 29th European crystallographic meeting (ECM-29) ecm29.ecanews.org	23.03.2015
Aug. 30- Sep. 4	Zaragoza Spain	VI European Conference on Neutron Scattering (ECNS) www.ecns2015.eu	15.03.2015
Sep. 14	Neuchâtel Switzerland	Annual Meeting (2015) of the SGK / SSCr	to be announced
2016			
Aug. 28 – Sep. 01	Basel CH	The 30th European crystallographic meeting (ECM-30)	to be announced
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

Become a member of SGK/SSCr

If you are working in the field of crystallography, you might be interested in becoming a member of our society. For more information as well as online registration, please go to our website (http://www.sgk-sscr.ch).



SGK/SSCr is a member of the Swiss Academy of Science.



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Country	
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Fax office	+ ()
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 FAX the completed form to	o: Denis Sheptyakov, +41 (0)56 310 2939

SGK / SSCr Newsletter No.92 (2015)

or use our online application form at http://www.sgk-sscr.ch

You may also use this form if you need to update your contact information.

Institutional members and supporting institutions

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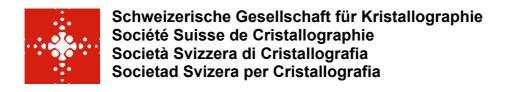
Supporting institutions



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(If you would like to see your logo here, please contact our treasurer, Dr. Piero Macchi)



Members of the Board of the Society for the period 2012 - 2014

President Dr. Jürg Schefer

Laboratorium für Neutronenstreuung und Imaging (LNS)

Paul Scherrer Institut, WHGA-244,

5232 Villigen PSI

+41 56 310 4347, jurg.schefer@psi.ch

Vice-President,

PD Dr. Piero Macchi

Tresorer Department of Chemistry & Biochemistry

University of Berne

Freiestrasse 3, 3012 Bern

+41 31 631 4361, piero.macchi@dcb.unibe.ch

Secretary Dr. Denis Sheptyakov

Laboratorium für Neutronenstreuung und Imaging (LNS)

Paul Scherrer Institut, WHGA-133,

5232 Villigen PSI

+41 56 310 3070, denis.sheptyakov@psi.ch

Webmanager Dr. Céline Besnard

Laboratoire de Cristallographie

Université de Genève

24, Quai Ernest Ansermet, 1211 Genève 4

+41 22 379 62 02, celine.besnard@unige.ch

Other members

Prof. Dr. Michael Hennig F. Hoffmann - La Roche Pharma Research 65/319,

CH-4070 Basel

+41 61 688 6046, michael.hennig@roche.com

Prof. Dr. Anthony Linden Department of Chemistry A

University of Zürich

Winterthurerstrasse 190, 8057 Zurich

+41 44 635 4228, anthony.linden@chem.uzh.ch

Prof. Dr. Katharina Fromm Département de Chimie Université de Fribourg

Chemin du Musée 9, 1700 Fribourg

+41 26 300 8732 katharina.fromm@unifr.ch

Dr. Antonia Neels

Center for X-ray Analytics

Empa - Swiss Federal Laboratories for Materials Science and Technology,

Überlandstrasse 129, 8600 Dübendorf

+41 58 765 45 07 antonia.neels@empa.ch

Auditors: B. Spingler (University of Zürich),

K. Schenk (EPF Lausanne)

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e-mail: denis.sheptyakov@psi.ch

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