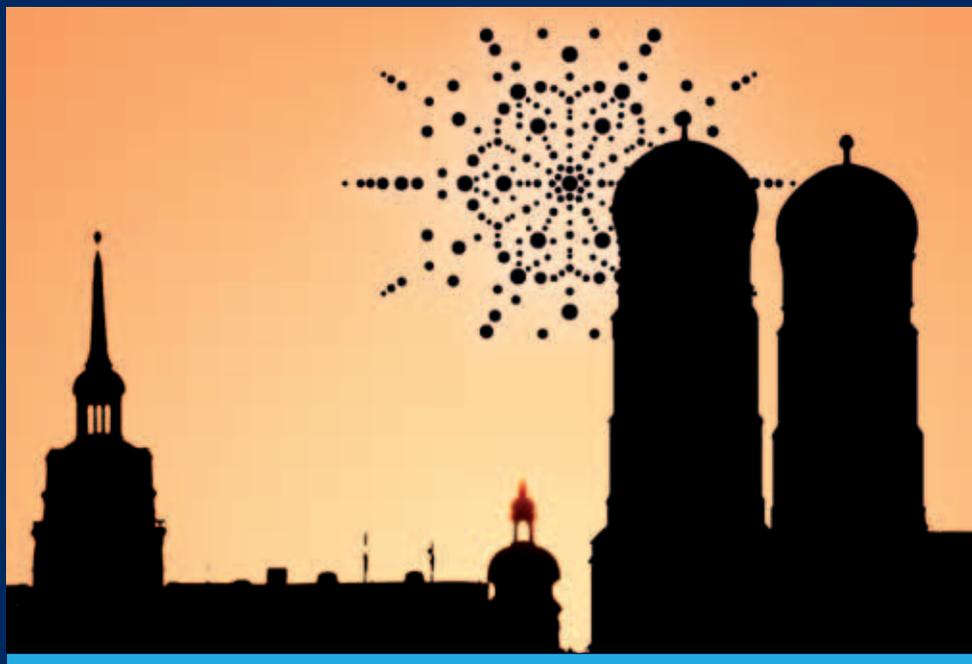


DGK 2012

100 Years of X-Ray Diffraction

Laue Day and 20th Annual Meeting of the
German Crystallographic Society (DGK)



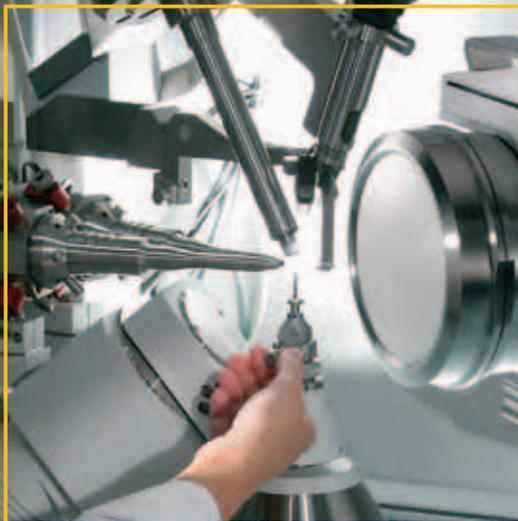
12–15 March 2012

MUNICH

An international conference commemorating
the discovery of X-Ray diffraction by
Max von Laue, Walter Friedrich and
Paul Knipping at LMU Munich in 1912

PROGRAMME

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The Measure of Confidence



Agilent Technologies

Organisation and Imprint	4
Welcome Note	6
General Information	
Venue and Date, Conference Website, Registration	7
Arrival, Travel and Parking	8
Cooperation with German Railways	9
City Map	10
Certificate of Attendance, Poster Prizes, Name Tag, Evaluation, Check-In	12
Media Check-In, Industrial Exhibition, Opening Hours	12
General Tips for Authors and Presenters	14
Sponsors and Media Cooperations	16
Exhibitors	17
Social and Cultural Programme	18
Exhibition Plan	20
Programme Overview	
Sunday, 11 March 2012	21
Monday, 12 March 2012	21
Tuesday, 13 March 2012	22
Wednesday, 14 March 2012	23
Thursday, 15 March 2012	24
Overview Plenary Talks	25
Scientific Programme	
Laue Day • Monday, 12 March 2012	26
Tuesday, 13 March 2012	27
Wednesday, 14 March 2012	32
Thursday, 15 March 2012	37
Poster Overview	42
Poster	44
Workshop	
Thursday, 15 March 2012	62
Friday, 16 March 2012	62
Index of Presenting Authors and Chairs	64
General Terms and Conditions	68

Venue and Date

Ludwig-Maximilians-University Munich
Geschwister-Scholl-Platz 1
80539 Munich (DE)
12–15 March 2012

Conference Website

www.dgk-conference.de

Organiser

Deutsche Gesellschaft für Kristallographie (DGK)
www.dgkristall.de

Conference Chair

Prof. Wolfgang W. Schmahl
Ludwig-Maximilians-University Munich
Department of Earth and Environmental Sciences
Theresienstraße 41
80333 Munich (DE)
wolfgang.schmahl@lrz.uni-muenchen.de

Local Organising Committee

Patrick Cramer	Sohyun Park
Peter Gille	Rossitza Pentcheva
Erika Griesshaber	Winfried Petry
Guntram Jordan	Wolfgang W. Schmahl
Martin Meven	Wolfgang Schnick

Conference Organisation

Conventus Congressmanagement & Marketing GmbH
Felix Angermüller
Carl-Pulfrich-Straße 1
07745 Jena (DE)
Phone +49 (0)3641 311 63 01
Fax +49 (0)3641 311 62 41
felix.angermueller@conventus.de
www.conventus.de

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SEIFERT Galaxy XRD L

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- Einkristallorientierungsbestimmung mit Laue-Technik
- Turbinenschaufeln für Flugturbinen und zur Energieerzeugung
- Bestimmung der relativen Kornorientierung



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- Automatische Orientierungsbestimmung von den gefundenen Lauepunkten
- Berechnung der theoretisch möglichen Lauepunkte auf Basis der gefundenen Lösung
- Überlagerung der berechneten mit den gemessenen Lauepunkten in der Grafik



GE imagination at work

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Dear Colleagues,

It is my great pleasure to welcome you to Munich to the 20th Annual Meeting of the “German Crystallographic Society” and to celebrate the 100th anniversary of the discovery of X-ray diffraction.

No event has shaped the face of the science of crystallography more than the 1912 experiment in Munich by Laue, Friedrich and Knipping. This breakthrough induced a change of momentum in the almost simultaneous work of Ewald, also in Munich at the time, and that of the Braggs in the UK in Leeds, Cambridge, and London. The achievements of 1912–14 finally opened the way to a new and increasingly important scientific discipline: the measurement and understanding of the structural state of materials or pharmaceutical agents and later even of the structure of the molecular foundations of life. This momentum has been conserved for over a century with recent significant achievements still being decorated with the highest awards in science. Even in our annual meeting in 2012, the focus on atomistic scale structure analysis by diffraction methods dominates the contributions to a great extent. As long as the challenges of structure research continue to sprout, the aperture of a “crystallographic society” perhaps does not need to be widened. A healthy and sustainable scientific ecosystem, though, probably relies very much on methodic and topical diversity.

The “Laue Day”, Monday, 12th March, 2012, will analyse historical and future perspectives of diffraction methods. From Tuesday, 13th March, to Thursday, 15th March, the stage is open for the contributed papers and plenary lectures covering methods and results from crystallographic research in biology, chemistry, physics, mineralogy, and materials science. On Friday, 14th March, a workshop on neutron diffraction will take place, which is combined with visits of the *Neutronenquelle Heinz Maier-Leibnitz (FRM-II)* in nearby Garching on Thursday afternoon and on Friday morning.

I thank all the participants and plenary speakers for their exciting contributions and the chairpersons and programme committee members for their activities to create the attractive programme which we are looking forward to.

Yours sincerely



Prof. Dr. Wolfgang W. Schmahl
Conference Chair

Venue and Date (for GPS)

Ludwig-Maximilians-University Munich
 Geschwister-Scholl-Platz 1
 80539 Munich (DE)
 12–15 March 2012

Conference Website

www.dgk-conference.de

Registration

Please register online at www.dgk-conference.de.

Registration Fees

DGK-Member	150 EUR
Non-Member	180 EUR
Student*	90 EUR
Ice Breaker Party, 11 March 2012	10 EUR
Evening Event at “Deutsches Museum”, 12 March 2012	10 EUR
Social Evening, 14 March 2012	20 EUR
Accompanying Person	50 EUR

*Confirmation required

Registration for Accompanying Person

Accompanying person have no access to the lectures and receive no conference documents. The ice breaker party, the evening event at “Deutsches Museum” and the social evening are included.

Payment/Confirmation of Payment

An invoice or confirmation of registration will be sent to you via postal or electronic mail within 14 days after online or paper registration. This invoice is a valid invoice which may be submitted to the local tax and revenue office. All fees are due upon receipt of invoice/registration confirmation. Payment transfers must include participant’s name and invoice number. Payment is also accepted by credit card (Master/Eurocard, American Express, VISA). Should you transfer your invoice amount within 10 days of the start of the event, please present your transfer remittance slip at the check-in desk as proof of payment.

Accommodation

We have allocated a contingent of rooms at different hotels. Further information can be found on the congress homepage at www.dgk-conference.de. Please note: Conventus GmbH acts as an intermediary party and assumes no liability for reservations made. Changes and cancellations have to be addressed to the appropriate hotel directly.

Arrival

By Plane

From the airport you can use the S-Bahn line 1 towards "Ostbahnhof" until the station "Moosach" and then change to line U3 towards "Fürstenried West". Exit at the station "Universität". Another way is with the S8 from "Airport" to "Marienplatz" and then you change to line U3 towards "Moosach" or U6 towards "Garching-Forschungszentrum" until "Universität".

By Car

Since parking lots are very rare in the centre of Munich, it is generally recommended to travel via bus or urban rail network. The nearest car park to the university is 'Park One GmbH' at the Türkenstraße 84, 80799 Munich.

The next Park and Ride possibility is Parkplatz Oberwiesenfeld, Moosacher Straße, 80809 Munich, from there you can use U3 towards "Fürstenried West" and get out at "Universität".

For illustration have a look at the city map.

Environmental Badge

The environmental badge is obligatory for the green zone in Munich also for foreigners! Vehicles without environmental badge may not pass through the green zone, otherwise a penalty of 40 EUR and a penalty point in penal record Flensburg impend, even if the vehicle would be allowed to pass through the zone based on its emission value. This is also valid for all vehicles registered in foreign countries, like cars, trucks and busses, as well as for business travelers and for tourists.

Public Transportation

By Urban Rail Network (from main station). Use S1 (towards "Ostbahnhof"), S2 (towards "Erding"), S3 (towards "Holzkirchen"), S4 (towards "Ebersberg"), S6 (towards "Zorneding"), S7 (towards "Kreuzstraße") or S8 (towards "Munich Airport") until station "Marienplatz" from there you can take the line U3 towards "Moosach" and U6 towards "Garching- Forschungszentrum" till the stop "Universität".

Cooperation with German Railways (DB)

Good for environment. Convenient for you. Travel by train from 99 EUR to the 20th Annual Meeting of the German Crystallographic Society (DGK).



With the offer of Conventus Congressmanagement & Marketing GmbH and Deutsche Bahn you can save money by visiting DGK congress. Get on board and profit from attractive prices and conditions for train travel.

Have a good connection to your venue and to the nature! Compared with a car each journey by train spares the environment two-thirds CO₂ and compared with a plane even respectable 75 percent.

The price for your event ticket for a return trip* to Munich is:

- nationwide uniform fixed price for a specific train (daily) in:
 - 1st class 159 EUR
 - 2nd class 99 EUR

- nationwide uniform fixed price without specific train (Mon-Thu) in:
 - 1st class 189 EUR
 - 2nd class 129 EUR



Your ticket is valid from **10th to 16th March, 2012**.

Please call our service number +49(0)1805 311153** to book your ticket and quote Conventus as reference. Have your credit card ready please.

This special offer is valid for all meetings of Conventus Congressmanagement & Marketing GmbH in 2012.

From ↔ to (and return)			Regular fair	Offer to congress	Savings
Hamburg	↔	Munich	258 EUR	99 EUR	159 EUR
Berlin	↔	Munich	232 EUR	99 EUR	133 EUR
Frankfurt a. M.	↔	Munich	182 EUR	99 EUR	83 EUR
Tübingen	↔	Munich	120 EUR	99 EUR	21 EUR

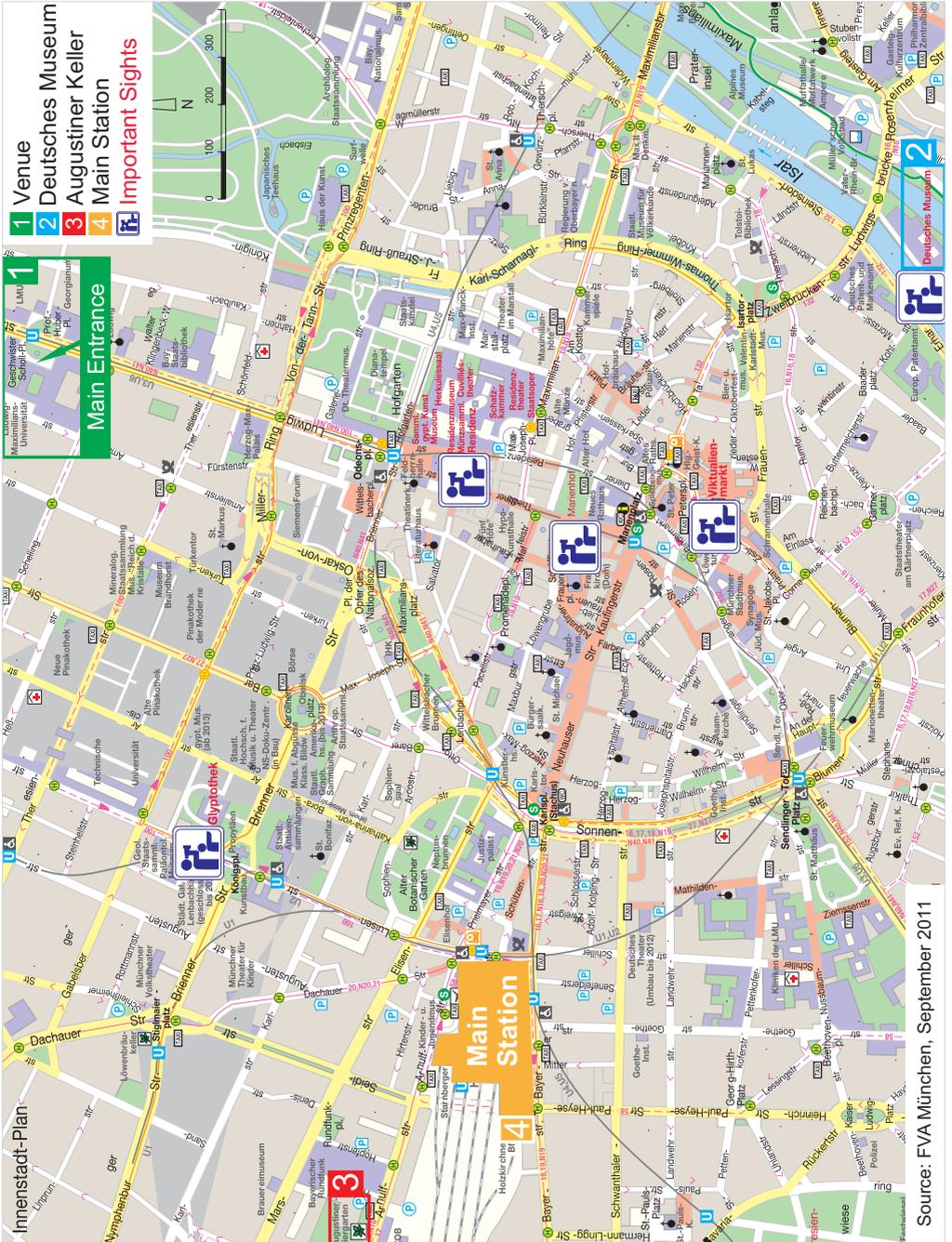
We wish you a pleasant journey with Deutsche Bahn!

* Changes and reimbursement before the first day of validity are 15 EUR excluded from the first day of validity onwards. Passengers restrict themselves to a particular train and travel times. For a supplement of 20 EUR in 2nd class resp. 20 EUR in 1st class full flexible tickets are also available.

** The booking line is available from Monday to Saturday 08⁰⁰-21⁰⁰. Calls will be charged at 0.14 EUR per minute, the expenses from cell phones max. 0.42 EUR per minute.

*** Prices are subject to change.

City Map



*mar*μ*X*

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www.marresearch.com

Certificate of Attendance

Certificates of attendance will be distributed on the last day of the congress at the check-in or upon leaving the additionally certified sessions.

Poster Prizes

All posters will be rated according to scientific basis and visual appearance. The three best posters will be awarded. First place: 300 EUR, second place: 200 EUR and third place: 100 EUR. The poster price is sponsored by Jena Bioscience GmbH.



Name Tag

Attendants and registered accompanying persons will receive a name tag after registration. Admittance to the congress and industrial exhibition is only allowed for those with a name tag. Name tags should be worn at all times.

Evaluation

Please turn in your completed and legible evaluation form to the check-in on the last day. We are always striving to provide high congress quality. This goal can only be reached with your help, your active participation and constructive criticism.

Check-In

The check-in is located in seminar room A011.

Media Check-In

The media check-in is located in seminar room A020.

Industrial Exhibition

There is an accompanying industrial exhibition. The exhibitors are looking forward to welcoming you and to present their comprehensive range of innovative products.

Opening Hours

	12 March	13 March	14 March	15 March
Industrial Exhibition		10 ⁰⁰ –18 ⁰⁰	10 ⁰⁰ –18 ⁰⁰	10 ⁰⁰ –13 ³⁰
Poster Exhibition		12 ⁰⁰ –18 ⁰⁰	08 ⁰⁰ –18 ⁰⁰	
Check-In	08 ⁰⁰ –17 ³⁰	08 ⁰⁰ –18 ⁰⁰	08 ⁰⁰ –18 ⁰⁰	08 ⁰⁰ –13 ³⁰
Media Check-In	08 ⁰⁰ –16 ³⁰	08 ⁰⁰ –18 ⁰⁰	08 ⁰⁰ –18 ⁰⁰	08 ⁰⁰ –13 ³⁰

Internet

There are computers with internet access available at media check-in (A020). Additionally WLAN will be provided. The name of the network is "con". You do not need any password.

Service for Handicapped Persons

The premises are suitable for the handicapped. The elevator can be reached via entrance "Amalienstraße".

Restaurants nearby the conference venue:

Atzinger

Schellingstraße 9
80799 Munich
Phone: +49 (0)89 28 28 80

Max Emanuel-Brauerei

Adalbertstraße
80799 Munich
Phone: +49 (0)89 271 51 58

Café Puck

Türkenstraße 33
80799 Munich
Phone: +49 (0)89 280 22 80

Café Altschwabing

Schellingstr. 56
80799 Munich
Phone: +49 (0)89 273 10 22

French Cuisine

Bistro Terrine
Amalienstraße 89
80799 Munich
Phone: +49 (0)89 28 17 80

Thai Cuisine

Kun-Tuk
Amalienstraße 81
80799 Munich
Phone: +49 (0)89 28 37 00

Cadu

Ludwigstraße 24
80539 Munich
Phone: +49 (0)89 28 98 66 00

Bachmaier Hofbräu

Leopoldstraße 50
80802 Munich
Phone: +49 (0)89 38 38 680

Grecian Cuisine

Piatsa
Leopoldstraße 33
80802 Munich
Phone: +49 (0)89 34 80 00

Egger Schwabing

Friedrichstraße 27
80801 Munich
Phone: +49 (0)89 39 85 26

Mexican Cuisine

Little Tortilla
Viktor-Scheffelstraße 23
80803 Munich
Phone: +49 (0)89 39 76 77

Esszimmer

Siegfriedstraße 14
80803 Munich
Phone: +49 (0)89 38 34 69 64

Schwabinger Wassermann

Apianstraße 7
80796 Munich
Phone: +49 (0)89 32 38 80 20

Basic Buffet & Restaurant

Herzogstraße 129
80797 Munich
Phone: +49 (0)89 30 76 56 76

Cafe Münchner Freiheit

Münchner Freiheit 20
80802 Munich
Phone: +49 (0)89 33 00 79 90

Ristorante Vinotheka

Il Grapollo
Adalbertstraße 28
80799 Munich
Phone: +49 (0)89 39 62 41

Presentation Submission

Media check-in is located in seminar room A020.

Time Allotment

We ask you to please follow the following: Please prepare your presentation so that you remain within the time allotment. Chair persons have been advised to avoid delays. Contact your chair person before your session begins and advise of any changes or special wishes.

Presentation Form/Submission of Presentation

PDF and PowerPoint presentations are permitted.

Required technical equipment will be available at the congress.

The use of Macintosh as well as the use of a personal laptop for a presentation is not planned, but possible.

For video and audio files please submit AVI, WMV and MPG files only as a separate file.

Please make sure that any required CODEC files for any videos are also submitted.

Your presentation and any additional files should be submitted at least two hours before your presentation time.

Please note: If you use a USB stick to save your files, do not protect it with software.

The projection data of your presentations before and during the whole congress will be recorded and managed centrally. There is a notebook with MS PowerPoint 2007 and a video projector in location.

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Röntgenlabor Dr. Ermrich /Reinheim/DE)

Springer-Verlag GmbH (Heidelberg/DE)

Systat Software GmbH (Erkrath/DE)

Media Cooperations

Cambridge University Press (Cambridge/GB)

"The European Physical Journal – Applied Physics"

Elsevier B. V. (Amsterdam/NL)

"Journal of Crystal Growth"

International Union of Crystallography – IUCr (Chester/GB)

"Acta Crystallographica"

"Journal of Applied Crystallography"

"Journal of Synchrotron Radiation"



Wiley-VCH Verlag GmbH & Co. KGaA (Weinheim/DE)

State at printing

The following exhibitors are looking forward to greeting you and to present you their comprehensive range of innovative products:

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FIZ Karlsruhe GmbH (Eggenstein-Leopoldshafen/DE)

GE Sensing & Inspection Technologies GmbH (Ahrensburg/DE)

Huber Diffraktionstechnik GmbH & Co. KG (Rimsting/DE)

INCOATEC GmbH (Geesthacht/DE)

International Union of Crystallography (Chester/GB)

Jena Bioscience GmbH (Jena/DE)

Marresearch GmbH (Norderstedt/DE)

MK Versuchsanlagen (Mücke-Merlau/DE)

Oldenbourg Wissenschaftsverlag GmbH (Munich/DE)

Oxford Cryosystems (Long Hanborough/GB)

Oxford Instruments GmbH (Wiesbaden/DE)

PANalytical GmbH (Kassel/DE)

PHYWE Systeme GmbH & Co. KG (Göttingen/DE)

Rigaku Europe SE (Berlin/DE)

Springer-Verlag GmbH (Heidelberg/DE)

Stoe & Cie GmbH (Darmstadt/DE)

Thermo Fisher Scientific GmbH (Dreieich/DE)

Xenocs SA (Sassenage/FR)

State at printing

Ice Breaker Party

Come together for drinks and snacks prior to the Kick-Off of the conference and break the ice in first conversations with our industrial partners and your colleagues.

Date	Sunday, 11 March 2012
Venue	Foyer conference venue
Start	18 ⁰⁰
Fee	10 EUR
Registration required!	



© fotolia.com/Tim Porter

Welcome Reception at Deutsches Museum

In the evening of the dedicated Laue Day we would like to invite you to a further lecture and a Laue-exhibition to the "Deutsches Museum". Snacks and drinks will be served. For your attendance please register.

Date	Monday, 12 March 2012
Venue	Deutsches Museum Munich
Start	19 ⁰⁰
Fee	10 EUR
distance from venue	2,9 km (by car 6 minutes, by foot 35 minutes)
Address	Museumsinsel 1 80538 Munich



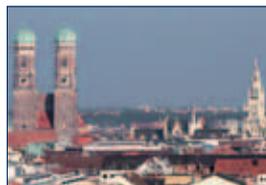
Take U6 (towards "Klinikum Großhadern") until "Marienplatz". Go one floor up to S-Bahn. Take any S-Bahn in the direction of "Ostbahnhof", exit at the next stop: "Isartor" and enjoy the 10 minute walk. The "Deutsches Museum" is signposted from the S-Bahn station "Isartor". You walk in the direction of your train up the escalator, turn right at the top and go to the street. On the street turn left and head towards the Isar river. Cross the bridge and turn right, walk upstream along the river until you reach entrance of "Deutsches Museum".

Guided Tour through Munich "Historical City Centre"

Ways in the past and the future.

It all started with the salt. And then? In our search for clues between Petersberg, Altem Hof und Frauenkirche we show how the historical city centre grow over the centuries. We report on markets, beer and brewing traditions, townhouses and the actual life in the city.

Date	Tuesday, 13 March 2012
Start	14 ⁰⁰
Duration	1,5 h (Tour ends in the city centre at "Marienplatz")
Fee	10 EUR
Meeting point	Check-In



historical skyline
© fotolia.com/Thomas Bürgele

Guided Beer Tour

Munich is famous for the “Hofbräuhaus”, but there are a lot of more places which have something to do with beer. You will learn something about beer barons, the origin of the “Russnmaß”, the purity requirements and something about the beer battles.

It is a fascinating tour across the city- and beer history of Munich and there is also a brewery guided tour with beer tasting included.



Hofbräuhaus
© fotolia.com/oromotion

Date	Wednesday, 14 March 2011
Start	14 ⁰⁰
Duration	1,5 h (Tour ends in the city centre at “Marienplatz”)
Fee	18 EUR
Meeting point	Check-In

Social Evening at Augustiner Keller

One of the most popular meeting places for the Munich and guests from all around the world, is the Augustiner Keller. The charm of Bavarian tradition, the freshly drawn Augustiner precious substance from wooden barrels, Bavarian specialties and other delicacies of our cuisine invite you to celebrate in the Augustiner Keller.



Augustiner Keller
© Augustiner-Keller München

Date	Wednesday, 14 March 2012
Start	20 ⁰⁰
Fee	20 EUR
Address	Augustiner Keller Arnulfstraße 52 80335 Munich
Distance from venue	3,2 km (by car 7 minutes, by foot 41 minutes)

Take U3 (towards “Fürstenried West”) or U6 (towards “Klinikum Großhadern”) until “Marienplatz”. From there take S1 (towards “Freising”), S2 (towards “Petershausen”), S3 (towards “Mammendorf”), S4 (towards “Geltendorf”), S6 (towards “Tutzing”), S7 (towards “Wolfratshausen”) or S8 (towards “Herrsching”) until “Hackerbrücke”.

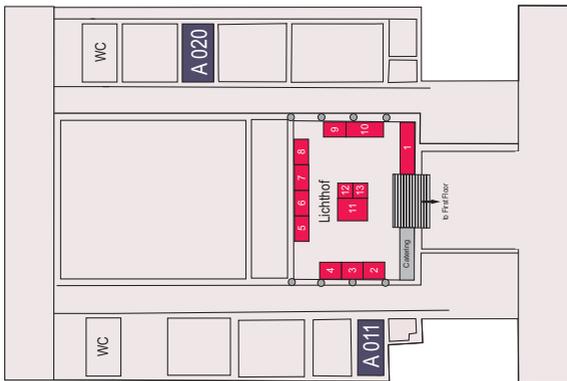
In addition, we recommend visiting the following museums: see page 10

- Alte und Neue Pinakothek
- Glyptothek
- Deutsches Museum
- Staatliches Museum Ägyptischer Kunst

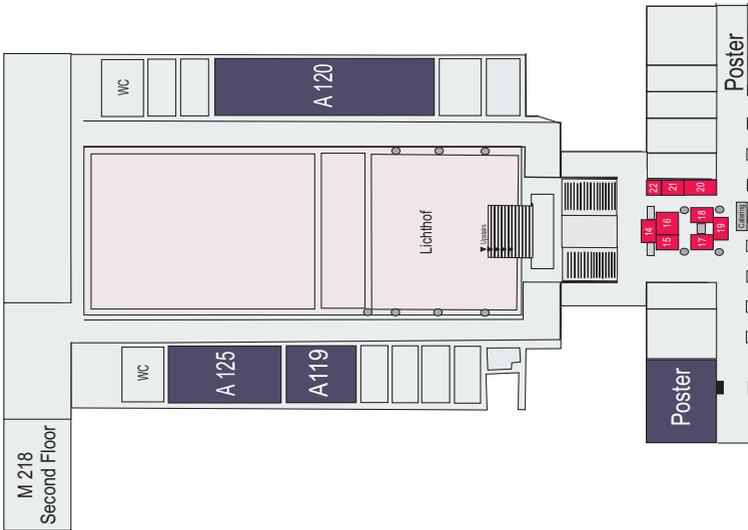


Further touristic offers: www.muenchen.de.

Floor Plan – Ground Floor



Floor Plan – First Floor



Exhibitors

- 1 INCOATEC GmbH
- 2 PANalytical GmbH
- 3 Dectris Ltd.
- 4 Oxford Cryosystems
- 5 International Union of Crystallography
- 6 Stoe & Cie GmbH
- 7 Huber Diffractionstechnik GmbH & Co. KG/
AXO Dresden GmbH
- 8 Agilent Technologies
- 9 PHYWE Systeme GmbH & Co. KG
- 10 Bruker AXS
- 11 GE Sensing & Inspection Technologies GmbH
- 12 Oldenbourg Wissenschaftsverlag
- 13 Oxford Instruments
- 14 Xenocs Sa
- 15 Jena Bioscience GmbH
- 16 Rigaku Europe SE
- 17 FIZ Karlsruhe
- 18 EFG GmbH
- 19 MK-Versuchsanlagen
- 20 Thermo Fisher Scientific GmbH
- 21 Marresearch GmbH
- 22 Springer

Sunday	Seminar room A020	Seminar room A011
12:00		
13:00	DGK Board Meeting	
14:00		Registration
15:00		
16:00		
17:00		
18:00	Ice Breaker Party	
19:00		
19:30	p. 18	

Monday	Lecture hall M218
09:00	Opening – Welcome Notes by DGK, LMU, TUM, IUCr
09:30	
09:45	p. 26
10:00	Michael Eckert
10:15	
10:30	p. 26
10:45	Coffee Break
11:00	
11:15	Dieter Schwarzenbach
11:30	
11:45	p. 26
12:00	André Authier
12:15	
12:30	p. 26
12:45	Lunch Break
13:00	
13:15	
13:30	
13:45	
14:00	Dieter Hoffmann
14:15	
14:30	p. 26
14:45	Henning Friis Poulsen
15:00	
15:15	p. 26
15:30	Coffee Break
15:45	
16:00	Helmut Dosch
16:15	
16:30	p. 26
16:45	Edward N. Baker
17:00	
17:15	p. 26
17:30	
18:45	
19:00	Robert Huber (Deutsches Museum)
19:15	
19:30	p. 26
19:45	Welcome Reception Deutsches Museum
-	
21:00	p. 18

	Lecture hall M218	Lecture hall A125	Lecture hall A120
09:00	MS01 Frontiers in Crystallographic Techniques and Instrumentation I p. 27	MS02 Crystallography in Engineering and Technology p. 27	MS03 Biocrystallography and Medicine p. 28
09:30			
10:00			
10:30	Coffee Break		
11:00	Markus Braden p. 28		
11:30			
12:00	Lunch Break		
12:15			
12:30			
12:45			
13:00			
	Lunch Symposium		
			
	p. 29		
13:30	MS04 Electron Microscopy & Diffraction p. 29	MS05 Frontiers in Structure Analysis p. 30	MS06 Hot New Biomolecular Structures p. 30
14:00			
14:30			
15:00	Coffee Break		
15:30	Martin Jansen p. 31		
16:00			
16:30	Poster Session p. 31		
17:00			
17:30			
18:00			
18:30	Awards p. 31		
19:00	Laue Price 2011 Lecture p. 31		
19:30			
20:00			

	Lecture hall M218	Lecture hall A125	Lecture hall A120
09:00	MS07 Pressure-, Field-, & Temperature-Induced Processes I p.32	MS08 Spectroscopy p. 32	MS09 Structure of Biological Macromolecular Complexes p. 33
09:30			
10:00			
10:30	Coffee Break		
11:00	Edgar Weckert p. 34		
11:30			
12:00	Lunch Break		
12:15			
12:30			
12:45			
13:00			
13:30	MS10 Pressure-, Field-, & Temperature-Induced Processes II p. 34	MS11 Aperiodic Crystals p. 35	MS12 Theory & Simulation p. 35
14:00			
14:30			
15:00	Coffee Break		
15:30	Ilme Schlichting p. 36		
16:00			
16:30	Poster Session p. 36		
17:00			
17:30			
18:00	DGK- Member Meeting p. 36		
18:30			
19:00			
19:30			
20:00 - 00:00	Social Evening at the Augustinerkeller p. 19		

	Lecture hall M218	Lecture hall A125	Lecture hall A120
9:00	MS13 Structure & Function – Biomaterials I	MS14 Structural Chemistry & Mineralogy	MS15 Frontiers of Structural Biology Methods
9:30			
10:00	p. 37	p. 37	p. 38
10:30	Coffee Break		
11:00	Fiona Meldrum		
11:30	p. 38		
12:00	Lunch Break		
12:30			
13:00			
13:30	MS16 Structure & Function – Biomaterials II	MS17 Structure & Function – New and Smart Materials	MS18 Frontiers in Crystallographic Techniques and Instrumentation II
14:00			
14:30	p. 38	p. 39	p. 39
15:00	Karl-Peter Hopfner		
15:30	p. 40		
16:00	Closing/Outlook 2013		
	p. 40		

Tuesday, 13 March 2012

- 11⁰⁰–12⁰⁰ **Coupling of charge orbital and magnetic order in transition-metal oxides**
Markus Braden (Cologne/DE)
- 15³⁰–16³⁰ **The energy landscape concept of matter, bridging crystallography and chemistry**
Martin Jansen (Stuttgart/DE)

Wednesday, 14 March 2012

- 11⁰⁰–12⁰⁰ **New light sources for structural studies**
Edgar Weckert (Hamburg/DE)
- 15³⁰–16³⁰ **X-ray free-electron lasers – emerging opportunities for structural biology**
Ilme Schlichting (Heidelberg/DE)

Thursday, 15 March 2012

- 11⁰⁰–12⁰⁰ **Bio-inspired crystallization – challenging single crystal shape and structure**
Fiona Meldrum (Leeds/GB)
- 15⁰⁰–16⁰⁰ **Integrated structural analysis of DNA double-strand break repair**
Karl-Peter Hopfner (Munich/DE)

- 09⁰⁰
Lecture Hall M218 **Opening – Welcome Notes**
Gautam Desiraju (Bangalore/IN)
President of the International Union of Crystallography
- Sine Larsen (Copenhagen/DK)
Representative of European Large Scale Facilities for Crystallography
- 10⁰⁰
LT-01 **Disputed discovery – the beginnings of X-ray diffraction in crystals in 1912 and it’s repercussions**
Michael Eckert (Munich/DE)
- 10⁴⁵–11¹⁵ Coffee Break
- 11¹⁵
LT-02 **Development of diffraction-based crystallography, from Laue to the present day**
Dieter Schwarzenbach (Lausanne/CH)
- 12⁰⁰
LT-03 **X-ray optics, from Röntgen to Laue, Ewald, Compton, Borrmann and synchrotron radiation**
André Authier (Peyrat-Le-Chateau/FR)
- 12⁴⁵–14⁰⁰ Lunch Break
- 14⁰⁰
LT08 **Max von Laue (1879–1960) – knight without fear or fault**
Dieter Hoffmann (Berlin/DE)
- 14⁴⁵
LT-04 **From multigrain crystallography to 3D movies of polycrystalline materials**
Henning Friis Poulsen (Lyngby/DK)
- 15³⁰–16⁰⁰ Coffee Break
- 16⁰⁰
LT-05 **Laue’s gateway to the nanocosmos – the future**
Helmut Dosch (Hamburg/DE)
- 16⁴⁵
LT-06 **Laue’s legacy to biology – the impact of X-ray diffraction on our understanding of living systems**
Edward N. Baker (Auckland/NZ)
- 19⁰⁰
LT-07
Dt. Museum **Beauty and fitness for purpose – architecture of proteins, the building blocks of life**
Robert Huber (Martinsried/DE)
- 19⁴⁵–21³⁰ Welcome Reception and Laue Exhibition (see page 18)

- 0900–1030
 Lecture hall M218
 Chair
- MS01: Frontiers in Crystallographic Techniques and Instrumentation I**
 Martin Meven (Garching/DE)
- 0900
 MS01-T01
- New strategies and better data with PILATUS detectors**
 Marcus Müller (Baden/CH)
- 0915
 MS01-T02
- SINGLE – a programme to control single-crystal diffractometers for high-precision lattice parameter measurements**
 Ross Angel (Padova/IT)
- 0930
 MS01-T03
- Utilizing synergetics – coupling μ -XRD² with μ -Raman**
 Christoph Berthold (Tübingen/DE)
- 0945
 MS01-T04
- In-house research facility for simultaneous measurements of elastic properties and densities of single crystals at high pressures**
 Alexander Kurnosov (Bayreuth/DE)
- 1000
 MS01-T05
- Progress in Laue topography**
 Andreas Danilewsky (Freiburg i. Br./DE)
- 1015
 MS01-T06
- Exploring structural properties at the micron and sub-micron scale with focused synchrotron radiation and scanning diffraction techniques**
 Manfred Burghammer (Grenoble/FR)
- 0900–1030
 Lecture hall A125
 Chair
- MS02: Crystallography in Engineering and Technology**
 Ullrich Pietsch (Siegen/DE)
- 0900
 MS02-T01
- On the validity of the Warren model of stacking faults**
 David Rafaja (Freiberg/DE)
- 0915
 MS02-T02
- Hydrothermale Synthese von CSH-Phasen (Tobermorit) mit dem Additiv Ca-Format**
 Andrea Hartmann (Hanover/DE)
- 0930
 MS02-T03
- Determining glass-content of dental ceramics with high-energy synchrotron radiation**
 Christiane Hartmann (Göttingen/DE)
- 0945
 MS02-T04
- Neutron diffraction on ferroelectric ceramics under electric field**
 Markus Hoelzel (Garching/DE)

- 10⁰⁰
MS02-T05 **The effect of polyaniline and BaTiO₃ on crystal structure, electric and magnetic properties of nanocrystalline Ni_{1-x}Zn_xFe_{1.5}Cr_{0.5}O₄**
Karimat El-Sayed (Cairo/EG)
- 10¹⁵
MS02-T06 **Incommensurate magnetic ordering in BiFeO₃-PbTiO₃ composites**
Anatoliy Senyshyn (Garching/DE)
- 09⁰⁰–10³⁰
Lecture hall A120
Chair **MS03: Biocrystallography and Medicine**
Caroline Kisker (Würzburg/DE)
- 09⁰⁰
MS03-T01 **Structure-based reengineering of designed Armadillo repeat proteins abandoned domain swapping of N-terminal capping repeats**
Peer Mittl (Zurich/CH)
- 09¹⁵
MS03-T02 **A specific binding motif enables SycD-YopD recognition**
Madeleine Schreiner (Bielefeld/DE)
- 09³⁰
MS03-T03 **The crystal structure of death receptpr 6 (DR6) – a potential receptor of the amyloid precursor protein (APP)**
Miriam Than (Jena/DE)
- 09⁴⁵
MS03-T04 **Characterization of glyoxalase I/Bleomycin resistance proteins in pseudomonas aeruginosa PA01**
Allegra Vit (Bayreuth/DE)
- 10⁰⁰
MS03-T05 **Unwinding the differences of the mammalian PERIOD clock proteins by X-ray crystallography**
Ira Schmalen (Martinsried/DE)
- 10¹⁵
MS03-T06 **Hexokinase flexibility causes oligomer-depended activity**
Bartholomeus Küttner (Leipzig/DE)
- 10³⁰ Coffee Break and Industrial Exhibition
- 11⁰⁰–12⁰⁰
P-01
Lecture hall M218
Chair **Coupling of charge orbital and magnetic order in transition-metal oxides**
Markus Braden (Cologne/DE)
Helmut Ehrenberg (Karlsruhe/DE)
- 12⁰⁰–13³⁰ Lunch Break and Industrial Exhibition

1215–1315

Lecture hall A120

Chair

Lunch Symposium – 100 Years Laue – 10 Years Incoatec – 1 Year IuS High Brilliance

Till Samtleben – Incoatec GmbH (Geesthacht/DE)



10 years Incoatec, the past, the now and the future

Dr. Carsten Michaelsen – Incoatec GmbH (Geesthacht/DE)

High throughput in Chemical Crystallography from an industrial point of view

Dr. Ina Dix – Novartis (Nürnberg/DE)

The new D8 – latest developments in SC-XRD

Dr. Martin Adam – Bruker AXS (Karlsruhe/DE)

Food and Beverage will be served for registered participants.

1330–1500

Lecture hall M218

Chair

MS04: Electron Microscopy & Diffraction

Christina Scheu (Munich/DE)

1330

MS04-T01

The importance of the correct intensity simulation of EBSD patterns

Gert Nolze (Berlin/DE)

1345

MS04-T02

Accurate band profile analysis in EBSD patterns using frequency space tiling

Farangis Ram (Düsseldorf/DE)

1400

MS04-T03

CryoTEM in materials science – studying biomimetic mineralization

Nico Sommerdijk (Eindhoven/NL)

1415

MS04-T04

Structure elucidation of germanium tin antimony tellurides by TEM and X-ray methods

Tobias Rosenthal (Munich/DE)

1430

MS04-05

Oxygen precipitation in semi conductor silicon wafers studied with X-ray diffraction in an energy dispersive Laue geometry

Alexander Gröschel (Erlangen/DE)

1445

MS04-T06

In-Situ measurement of early stages of oxygen precipitation in silicon by dynamical X-ray diffraction

Johannes Will (Erlangen/DE)

- 1330–1500
Lecture hall A125
Chairs
MS05: Frontiers in Structure Analysis – Electron Density and other Precision Studies
Ulli Englert (Aachen/DE), Christian Lehmann (Mülheim/DE)
- 1330
MS05–T01
Electron density contributions to drug development
Peter Luger (Berlin/DE)
- 1345
MS05–T02
A joint modelisation of X-ray and neutron diffraction data – application to magnetic molecular materials
Claude Lecomte (Nancy/FR)
- 1400
MS05–T03
Charge density study of alpha-Boron at 100 K
Swastik Mondal (Bayreuth/DE)
- 1415
MS05–T04
ShelXle – a cute GUI for SHELXL
Christian B. Hübschle (Göttingen/DE)
- 1430
MS05–T05
Frontiers in structural analysis of high-pressure molecular crystal structures
Francesca Fabbiani (Göttingen/DE)
- 1445
MS05–T06
Structural investigation of ZnO nanoparticles by pair distribution function (PDF)
Kaustuv Datta (Erlangen/DE)
- 1330–1500
Lecture hall A120
Chair
MS06: Hot New Biomolecular Structures
Karl-Peter Hopfner (Munich/DE)
- 1330
MS06–T01
Convergent evolution of Rubisco activases from green plants and red algae
Andreas Bracher (Martinsried/DE)
- 1345
MS06–T02
Structural insight into the activation mechanism of toxoplasma gondii nucleoside triphosphate diphosphohydrolases by disulfide reduction
Ulrike Krug (Leipzig/DE)
- 1400
MS06–T03
Identification of a novel TGF- β -binding site in the structure of the ZP-C domain of murine TGFR-3
Uschi Diestel (Erlangen/DE)
- 1415
MS06–T04
Structural and functional organization of the Ska complex – a key assembly for stable kinetochore-microtubule attachments
Arulanandam Arockia Jeyaprakash (Martinsried/DE)

- 14³⁰
MS06-T05 **Crystal structure of yeast splicing factor Cwc2 reveals a novel architecture of a multipartite RNA-binding protein**
Jana Schmitzova (Göttingen/DE)
- 14⁴⁵
MS06-T06 **Structural and functional studies of spliceosome catalytic activation**
Karine Santos (Berlin/DE)
- 15⁰⁰ Coffee Break and Industrial Exhibition
- 15³⁰–16³⁰
P-02 **The energy landscape concept of matter, bridging crystallography and chemistry**
Martin Jansen (Stuttgart/DE)
Lecture hall M218
Chair Wolfgang Schnick (Munich/DE)
- 16³⁰–18⁰⁰ Poster Session (see page 42)
- 18⁰⁰–19⁰⁰ Award Ceremony
Lecture hall M218
- 19⁰⁰–19³⁰ **Laue Price 2011 Lecture – Crystallography and crystal chemistry in the diamond anvil cell**
Lecture hall M218 Alexandra Friedrich (Frankfurt a. M./DE)

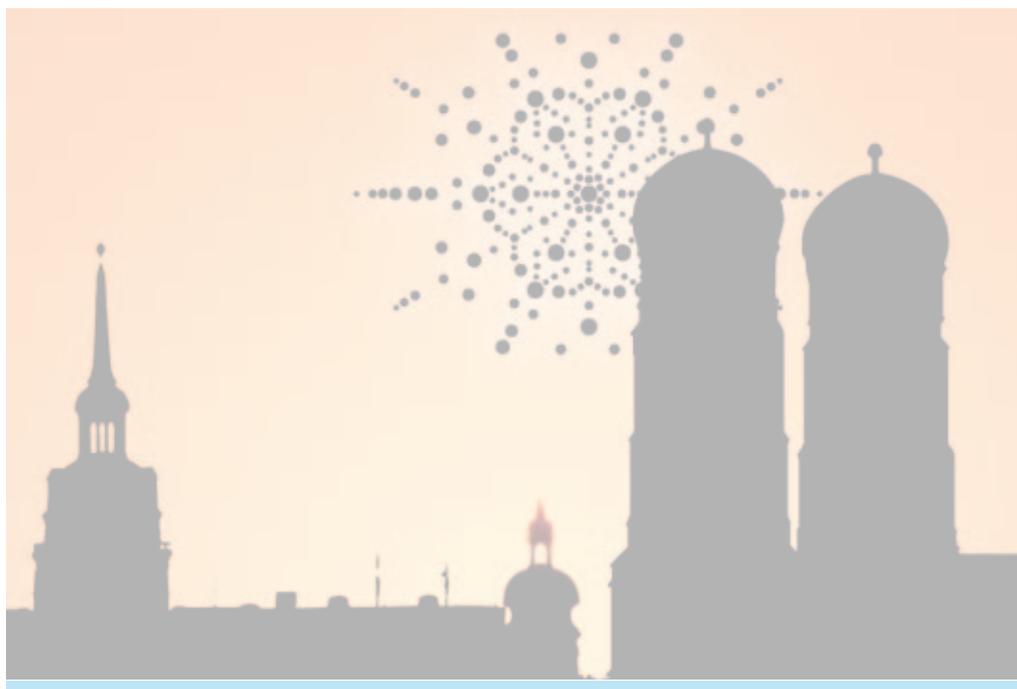
- 0900–1030
Lecture hall M218
Chairs
- MS07: Pressure-, Field-, & Temperature-Induced Processes I**
Eiken Haussühl (Frankfurt a. M./DE), Jürgen Schreuer (Bochum/DE)
- 0900
MS07–T01
- How to use Jana2006 to process high-pressure single-crystal data**
Andrzej Grzechnik (Bilbao/ES)
- 0915
MS07–T02
- Elasticity of Sm-doped $Y_3Al_5O_{12}$ with an independent absolute pressure scale and its calibration as a primary pressure standard**
Dmytro Trots (Bayreuth/DE)
- 0930
MS07–T03
- Influence of crystal size and uniaxial stress on the B4 to B1 phase transition pressure in AlN and ZnO nanocrystals investigated with second harmonic generation (SHG)**
Leonore Wiehl (Frankfurt a. M./DE)
- 0945
MS07–T04
- Crystal structure of α -FeOOH under high-pressure**
Elena Bykova (Bayreuth/DE)
- 1000
MS07–T05
- High pressure behavior of wadeite $K_2ZrSi_3O_9$**
Niklas Niederwieser (Innsbruck/AT)
- 1015
MS07–T06
- Comparative first principles study of pressure induced phase transitions in Mn_2O_3 and $MnTiO_3$**
Carmen Quiroga (Munich/DE)
- 0900–1030
Lecture hall A125
Chairs
- MS08: Spectroscopy**
Georg Amthauer (Salzburg/AT), Michael Fechtelkord (Bochum/DE)
- 0900
MS08–T01
- Aluminum ordering and clustering in Al-rich synthetic phlogopite – the influence of fluorine investigated by $\{^{19}F/^1H\}$ ^{29}Si CPMAS NMR spectroscopy**
Michael Fechtelkord (Bochum/DE)
- 0915
MS08–T02
- The Automatic Tuning Matching Goniometer (ATMG) probe system – mapping chemical questions using orientation dependent NMR experiments**
Oliver Pecher (Aachen/DE)

- 09³⁰
MS08-T03 **A 57Fe Mössbauer study of local structure and cation distribution in mullite-type $\text{Bi}_2\text{Fe}_4\text{O}_9$ - $\text{Bi}_2\text{Mn}_4\text{O}_{10}$ and $\text{Bi}_2\text{Fe}_4\text{O}_9$ - $\text{Bi}_2\text{M}_4\text{O}_9$ (M=Al, Ga) solid solutions**
Sven-Ulf Weber (Braunschweig/DE)
- 09⁴⁵
MS08-T04 **Application of a nanoscope – fayalite 3D difference electron densities from synchrotron diffraction measurements**
Werner Lottermoser (Salzburg/AT)
- 10⁰⁰
MS08-T05 **Ion exchange and adsorption of schwertmannite compared to goethite and lepidocrocite**
Peter M. Kadletz (Munich/DE)
- 10¹⁵
MS08-T06 **Scanning coherent X-ray diffraction microscopy with spatial resolutions down to below 10 nm**
Christian Schroer (Dresden/DE)
- 09⁰⁰–10³⁰
Lecture hall A120
Chair **MS09: Structure of Biological Macromolecular Complexes**
Markus Wahl (Göttingen/DE)
- 09⁰⁰
MS09-T01 **Inhibition of PDZ domain mediated protein-protein interactions**
Yvette Roske (Berlin/DE)
- 09¹⁵
MS09-T02 **Structural and functional investigation of spliceosomal U5 snRNP assembly**
Gert Weber (Berlin/DE)
- 09³⁰
MS09-T03 **Structural studies of a bidirectional transport factor**
Marlene Grünwald (Tübingen/DE)
- 09⁴⁵
MS09-T04 **Why is the mollusc chitin synthase such a complex molecular machine?**
Ingrid Weiss (Saarbrücken/DE)
- 10⁰⁰
MS09-T05 **Insight into the allosteric mechanism of GntR/HutC-type bacterial repressor molecules**
Simon Fillenberg (Erlangen/DE)
- 10¹⁵
MS09-T06 **Structure and Mechanism of Human DNA Polymerase η**
Christian Biertümpfel (Bethesda, MD/US)
- 10³⁰–11⁰⁰ Coffee Break and Industrial Exhibition

- 11⁰⁰–12⁰⁰
P-03
Lecture hall M218
Chair
- New light sources for structural studies**
Edgar Weckert (Hamburg/DE)
U. Bismayer (Hamburg/DE)
- 12⁰⁰–13³⁰
Lunch Break and Industrial Exhibition
- 13³⁰–15⁰⁰
Lecture hall M218
Chairs
- MS10: Pressure-, Field-, & Temperature-Induced Processes II**
Eiken Haussühl (Frankfurt a. M./DE), Jürgen Schreuer (Bochum/DE)
- 13³⁰
MS10–T01
- Crystal structure and magnetic ordering in the metal(III)oxyhalide CrOCl at low temperatures**
Andreas Schönleber (Bayreuth/DE)
- 13⁴⁵
MS10–T02
- Temperature dependence of cation distribution in $(\text{Co}_x\text{Mg}_{1-x})_2\text{SiO}_4$ olivines**
Jianmin Shi (Braunschweig/DE)
- 14⁰⁰
MS10–T03
- Structure-property relationships in silicates – elasticity of natural beryl**
Chandra Shekhar Pandey (Bochum/DE)
- 14¹⁵
MS10–T04
- Atomic scale description of the macroscopic piezo-ferroelectric properties of high performance lead zirconate titanate (PZT)**
Manuel Hinterstein (Dresden/DE)
- 14³⁰
MS10–T05
- Observation of a low-symmetry phase in $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ by high resolution X-ray diffraction and optical birefringence microscopy**
Semen Gorfman (Siegen/DE)
- 14⁴⁵
MS10–T06
- Influence of electric field on temperature-induced local phase transformations in relaxor ferroelectrics studied by polarized raman spectroscopy**
Bernd Maier (Hamburg/DE)

- 1330–1500
Lecture hall A125
Chair
MS11: Aperiodic Crystals
Sander van Smaalen (Bayreuth/DE)
- 1330
MS11–T01
Unravelling the Local ~ 8 Å Structure of Al–Cu–Co quasicrystals by the use of three dimensional pair distribution function analysis
Philippe Schaub (Zurich/CH)
- 1345
MS11–T02
Standard and non-standard settings of superspace groups
Sander van Smaalen (Bayreuth/DE)
- 1400
MS11–T03
CuTe – a modulated structure and its electronic origin
Thomas Doert (Dresden/DE)
- 1415
MS11–T04
Incommensurately modulated structure of nepheline
Karen Friese (Bilbao/ES)
- 1430
MS11–T05
From transition kinetics to lock-in mechanisms – manipulating incommensurately modulated structures in Rb-doped K_2ZnCl_4
Karsten Behrendt (Göttingen/DE)
- 1445
MS11–T06
Phase transitional and critical phenomena in crystallographic superspace
Laurent Guerin (Rennes/FR)
- 1330–1500
Lecture hall A120
Chairs
MS12: Theory & Simulation
Rossitza Pentcheva (Munich/DE), Gerhard Paul Raabe (Aachen/DE)
- 1330
MS12–T01
The role of metric parameters in the interpretation of order/disorder (O/D) structures
Berthold Stöger (Vienna/AT)
- 1345
MS12–T02
Optimising the debye scattering equation for use with polycrystalline materials
Noel Thomas (Höhr-Grenzhausen/DE)
- 1400
MS12–T03
Rigid bodies and symmetry modes – a great combination
Melanie Müller (Trento/IT)
- 1415
MS1–T04
The bilbao crystallographic server – structure utilities toolbox
Mois Ilia Aroyo (Bilbao/ES)

- 14³⁰
MS12-T05 **Ab initio simulations of lattice stability – an effect of temperature and temperature induced excitations**
Igor Abrikosov (Linköping/SE)
- 14⁴⁵
MS12-T06 **Arsenate adsorption at hydrous FeOOH surfaces – an ab initio study**
Katrin Otte (Munich/DE)
- 15⁰⁰ Coffee Break and Industrial Exhibition
- 15³⁰–16³⁰
P-04 **X-ray free-electron lasers – emerging opportunities for structural biology**
Ilme Schlichting (Heidelberg/DE)
Lecture hall M218
Chair Patrick Cramer (Munich/DE)
- 16³⁰–18⁰⁰ Poster Session (see page 42)
- 18⁰⁰–19³⁰ DGK-Member Meeting
Lecture hall M218
- from 20⁰⁰ Social Evening at the Augustinerkeller (see page 19)

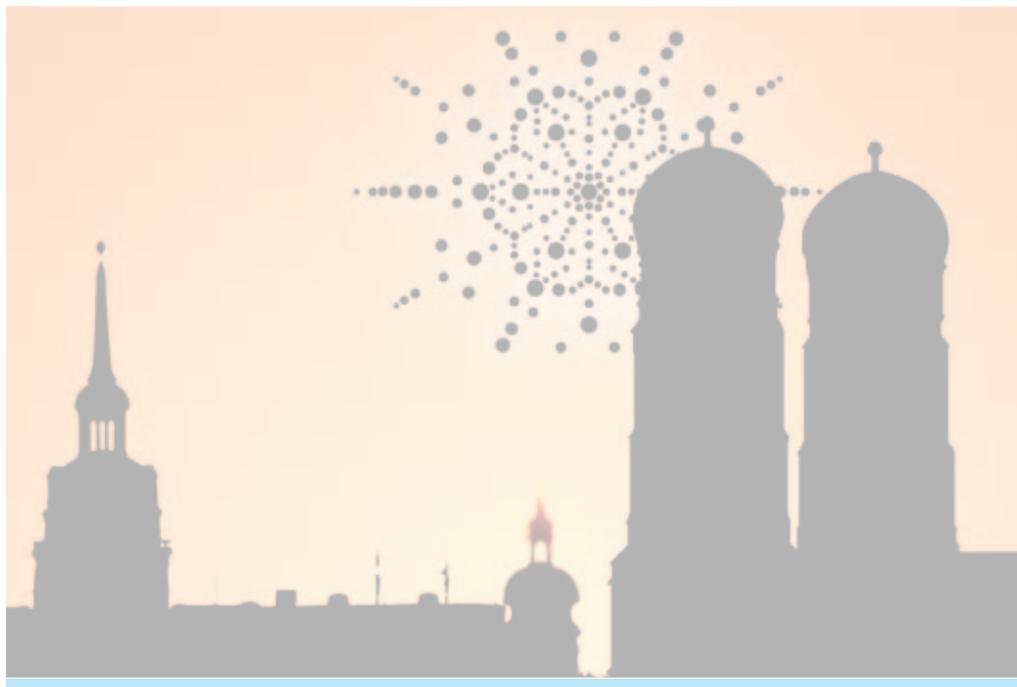


- 09⁰⁰–10³⁰ **MS13: Structure & Function – Biomaterials I**
 Lecture hall M218
 Chair Erika Griesshaber (Munich/DE)
- 09⁰⁰
 MS13–T01 **Organic and inorganic crystals in bioinspired hybrid materials**
 Nico Sommerdijk (Eindhoven/NL)
- 09³⁰
 MS13–T02 **The effect of physiological saline and soluble matrix proteins of *Porcellio scaber* ACC deposits on calcium carbonate precipitation**
 Andreas Ziegler (Ulm/DE)
- 09⁴⁵
 MS13–T03 **Hydroxyapatite-Nanoceramics-Patent – EP 01824443**
 Ulli Bismayer (Hamburg/DE)
- 10⁰⁰
 MS16–T02 **Crystallographic, structural and mechanical properties of shark teeth**
 Oleg Prymak (Essen/DE)
- 09⁰⁰–10³⁰ **MS14: Structural Chemistry & Mineralogy**
 Lecture hall A125
 Chairs Reinhard Neder (Erlangen/DE), Thomas Schleid (Stuttgart/DE)
- 09⁰⁰
 MS14–T01 **Structural variability in complex uranyl phosphates and uranyl arsenates of divalent elements**
 Evgeny Alekseev (Jülich/DE)
- 09¹⁵
 MS14–T02 **Boron in mullites – syntheses, properties and a structural puzzle**
 Hanna Lühns (Bremen/DE)
- 09³⁰
 MS14–T03 **Combined neutron, X-ray and DFT study of croconic acid**
 Matthias Gutmann (Chilton Didcot/GB)
- 09⁴⁵
 MS14–T04 **Ionic substitution in meridianiite (MgSO₄·11H₂O) – solid solutions and novel hydrates**
 Dominic Fortes (London/GB)
- 10⁰⁰
 MS14–T05 **New methods for the synthesis of ternary rare-earth metal(III) oxoarsenates(III) and (V) with a comparison of the comprehensive crystal structures**
 Sebastian J. Metzger (Stuttgart/DE)
- 10¹⁵
 MS14–T06 **Time-resolved investigation of crystallisation processes**
 Tanja Gnutzmann (Berlin/DE)

- 09⁰⁰–10³⁰ **MS15: Frontiers of Structural Biology Methods**
Lecture hall A120
Chair Manfred Weiss (Berlin/DE)
- 09⁰⁰ **EMBL@PETRA3 – an integrated facility for structural biology**
MS15–T01 Thomas R. Schneider (Hamburg/DE)
- 09³⁰ **The new D8 structural biology solutions for macromolecular crystallography:
initial results**
MS15–T02 Vernon Smith (Karlsruhe/DE)
- 09⁵⁰ **XDSAPP – a graphical user interface for processing diffraction data using XDS**
MS15–T03 Uwe Mueller (Berlin/DE)
- 10¹⁰ **Localization and orientation of heavy atom cluster compounds using automated
molecular replacement**
MS15–T04 Sven Dahms (Jena/DE)
- 10³⁰–11⁰⁰ Coffee Break and Industrial Exhibition
- 11⁰⁰–12⁰⁰ **Bio-inspired crystallization – challenging single crystal shape and structure**
P–05 Fiona Meldrum (Leeds/GB)
Lecture hall M218
Chair Wolfgang W. Schmahl (Munich/DE)
- 12⁰⁰–13³⁰ Lunch Break and Industrial Exhibition
- 13³⁰–14⁴⁵ **MS16: Structure & Function – Biomaterials II**
Lecture hall M218
Chair Erika Griesshaber (Munich/DE)
- 13³⁰ **Cellulose fibril orientation in primary cell walls of Arabidopsis thaliana (L.)**
MS16–T01 Friederike Saxe (Potsdam/DE)
- 13⁴⁵ **Improved analysis of cellulose microfibril orientation distribution in hardwood by
X-ray diffraction**
MS16–T02 Markus Rueggeberg (Potsdam/DE)
- 14⁰⁰ **Characteristics of the aragonite – calcite transition in bivalve shells**
MS16–T03 Klemens Kelm (Cologne/DE)

- 1415
MS16-T04 **Crystallographic assembly of the coccolith elements of *Emiliania huxleyi* – an electron diffraction study**
Ramona Hoffmann (Munich/DE)
- 1430
MS16-T05 **The nanoscale composite nature of biological materials**
Patrick Alexa (Munich/DE)
- 1330–1515
Lecture hall A125
Chair **MS17: Structure & Function – New and Smart Materials**
Ulrich Bismayer (Hamburg/DE)
- 1330
MS17-T01 **The control of material properties by polyhedral tilting**
Ross Angel (Padova/IT)
- 1345
MS17-T02 **Structure and properties of the multiferroic BaTiO₃/Fe(001) interface**
Holger L. Meyerheim (Halle/DE)
- 1400
MS17-T03 **Structure-property relationships in mullite-type Bi₂M₄O₉ (M = Fe, Ga) and Bi₂Mn₄O₁₀**
Jürgen Schreuer (Bochum/DE)
- 1415
MS17-T04 **Structure of disordered Mo-Nb-V-Oxide precursor materials from pair distribution function analysis**
Reinhard Neder (Erlangen/DE)
- 1430
MS17-T05 **Filling vacancies in Ge/Sb/Te materials with lithium**
Thorsten Schröder (Munich/DE)
- 1445
MS17-T06 **In situ X-ray characterization and crystallographic investigation of inorganic catalysts for ammonia decomposition**
Claudia Weidenthaler (Mülheim an der Ruhr/DE)
- 1500
MS17-T07 **Wasserdesinfektion mittels pyroelektrischen mikro- und nanokristallinen LiNbO₃ und LiTaO₃**
Erik Mehner (Freiberg/DE)
- 1330–1500
Lecture hall A120
Chair **MS18: Frontiers in Crystallographic Techniques and Instrumentation II**
Martin Meven (Garching/DE)
- 1330
MS18-T01 **Experimental facilities for macromolecular crystallography at diamond light source**
Ralf Flaig (Didcot/GB)
- 1345
MS18-T02 **Patterson function solution by δ recycling**
Jordi Rius (Bellaterra/ES)

- 14⁰⁰
MS18-T03 **Mapping rocking curves of large crystals with high spatial resolution**
Robert Loetzsch (Jena/DE)
- 14¹⁵
MS18-T04 **High-definition X-ray polarimetry**
Berit Marx (Jena/DE)
- 14³⁰
MS18-T05 **High-brilliance X-ray sources for biological crystallography**
Jürgen Graf (Geesthacht/DE)
- 14⁴⁵
MS18-T06 **Yell – program for 3D-PDF diffuse scattering analysis**
Arakadiy Simonov (Zurich/CH)
- 15⁰⁰–16⁰⁰
P-06 **Integrated structural analysis of DNA double-strand break repair**
Karl-Peter Hopfner (Munich/DE)
Lecture hall M218
Chair Udo Heinemann (Berlin/DE)
- 16⁰⁰
Lecture hall M218 **Closing and Outlook 2013**
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**21st Annual Conference
of the German
Crystallographic Society**

19–22 March

2013

**Freiberg (Sachsen)
INVITATION**



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		Page
MS01	Frontiers in Crystallographic Techniques and Instrumentation	44
MS02	Crystallography in Engineering and Technology	45
MS03	Biocrystallography and Medicine	47
MS05	Frontiers in Structure Analysis – Electron Density and other Precision Studies	47
MS06	Hot New Biomolecular Structures	48
MS07	Pressure-, Field-, & Temperature-Induced Processes	49
MS08	Spectroscopy	50
MS09	Structure of Biological Macromolecular Complexes	52
MS11	Aperiodic Crystals	52
MS12	Theory & Simulation	53
MS13	Structure & Function – Biomaterials	54
MS14	Structural Chemistry & Mineralogy	54
MS15	Frontiers of Structural Biology Methods	58
MS17	Structure & Function – New and Smart Materials	59
MS19	Preparative Methods for Crystalline Materials	60

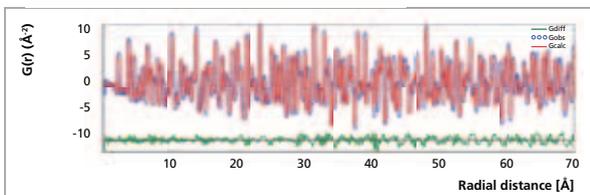
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- MS01** **Frontiers in Crystallographic Techniques and Instrumentation**
- MS01-P01 **Neue SAXS/WAXS-Anwendungen auf einem Vielzweck-Röntgenpulverdiffraktometer**
D. Opper, T. Schönbeck (Kassel/DE)
- MS01-P02 **Olex2 – a complete package for molecular crystallography**
H. Puschmann, O. Dolomanov (Durham/GB), L. Bourhis (Paris/FR)
Richard Gildea (Berkeley, CA/US)
- MS01-P03 **Characterisation of matter and on site qualification of materials through X-ray diffraction**
Giovanni Berti (Pisa/IT)
- MS01-P05 **High-pressure cooling of virus crystals**
A. Burkhardt, M. Warmer (Hamburg/DE), A. Wagner (Didcot/GB)
D. Stuart (Oxford/GB), R. Reimer, H. Hohenberg, A. Meents (Hamburg/DE)
- MS01-P06 **A moment in time – 100 Years of X-ray diffraction versus 100 days of PHOTON
100 CMOS detector**
H. Ott, M. Adam (Karlsruhe/DE), M. Ruf (Madison, WI/US)
- MS01-P07 **Revised fine-resolution neutron powder diffractometer E9 at BER II/HZB**
D. M. Többens, M. Tovar, C. Stephan (Berlin/DE), P. Henry (Lund/DK)
- MS01-P08 **Modular setup for measurement of pyroelectric coefficients and their temperature
dependence**
M. Ackermann, P. Becker, L. Bohatý (Cologne/DE)
- MS01-P09 **Novel microfocus X-ray sources for high-pressure crystallography**
T. Samtleben, J. Graf, B. Hasse (Geesthacht/DE), F. Fabbiani (Göttingen/DE)
M. Probert (Durham, NC/US), C. Michaelsen (Geesthacht/DE)
- MS01-P10 **Recent developments of beamline P24 (ChemCryst) at Petra III.14**
C. Paulmann, A. Berghäuser, D. Ropers, D. Novikov, U. Bismayer (Hamburg/DE)
S. Park, W. Schmahl (Munich/DE), D. Meyer (Freiberg/DE), C. Lehmann (Mülheim/DE)
S. van Smaalen (Bayreuth/DE), S. Techert (Göttingen/DE)
- MS01-P11 **Investigations on specimen fluorescence using Co radiation with point and line
X-ray detection systems**
R. Wenda, T. Kirsch (Nürnberg/DE), D. Götz (Almelo/NL)
- MS01-P12 **The improved state of STRESS-SPEC for texture characterization**
W. Gan (Garching/DE), C. Randau (Clausthal-Zellerfeld/DE), M. Hofmann (Garching/DE)
N. Al-hamdany, H.-G. Brokmeier (Clausthal-Zellerfeld/DE), M. Müller
A. Chreyer (Garching/DE)

- MS01-P13 **The new neutron single crystal diffractometer „BioDiff“ for macromolecular crystallography at the FRM II**
A. Ostermann, T. E. Schrader (Garching/DE), M. Monkenbusch, B. Laatsch (Jülich/DE)
P. Jüttner, W. Petry, D. Richter (Garching/DE; Jülich/DE)
- MS01-P14 **Proofs of concept of on site X-ray diffraction using robotic technology**
F. De Marco, G. Berti, M. E. Del Seppia (Pisa/IT)
- MS01-P17 **Molecular excited state-structure determination of metal organic compounds by time resolved X-ray crystallography at beamline P11 at PETRA III**
R. Raghunandan, A. Meents (Hamburg/DE)
- MS01-P18 **Recent software and hardware developments in the SuperNova dual source microfocus diffractometer**
Z. Gál, O. Presly, M. Meyer (Oxfordshire/GB)
- MS02 Crystallography in Engineering and Technology**
- MS02-P01 **Crystallographic description of ϵ -martensite via stacking faults in austenitic TRIP-steels**
S. Martin, D. Rafaja (Freiberg/DE)
- MS02-P02 **Early stages of cement hydration – an in-situ study utilizing high resolution SyXRD**
M.-C. Schlegel, A. Sarfraz, U. Mueller, U. Panne, F. Emmerling (Berlin/DE)
- MS02-P03 **Does K_2CaSiO_4 exist? – a phase-analytical study in the system $K_2O-CaO-SiO_2$ with implications for the characterization of residual materials**
V. Kahlenberg, E. Arroyabe, R. Tessadri, D. M. Többens (Innsbruck/AT)
- MS02-P04 **Roboter in der Diffraktometrie, keine neue Idee aber sehr effektiv an Stress-Spec**
H.-G. Brokmeier (Göttingen/DE), M. Hofmann, W. Gan, C. Randau (Garching/DE)
M. Völler (Göttingen/DE), M. Müller (Garching/DE), A. Schreyer (Geesthacht/DE)
W. Petry (Garching/DE)
- MS02-P05 **Herzenbergite as absorber material in thin-film solar-cells**
Andreas Stadler (Salzburg/AT)
- MS02-P06 **Crystal structures and compaction behaviour of amine salts of acidic drugs**
C. H. Schwalbe (Cambridge/GB), M. Ramirez, S. David
B. R. Conway (Birmingham/GB), P. Timmins (Moreton/GB)

- MS02-P07 **Cancrinit-Katoit Kokristallisation beim Recycling von Porenbeton (PB) im System PB-NaOH-NaAlO₂-Na₂CO₃-H₂O**
V. Petrov, A. Hartmann, J.-C. Buhl (Hanover/DE)
- MS02-P08 **Kinetics of dissolution/recrystallization of tobermorite, calcite and quartz from autoclaved aerated concrete (AAC) in NaOH and C₆H₈O₇ solutions**
G. Pawlas, A. Hartmann, V. Petrov, J. C. Buhl (Hanover/DE)
- MS02-P09 **X-ray micro-diffraction analysis of heterogenous concrete samples**
P. Schaub, E. Wieland, R. Dähn, A. Leemann (Villigen/CH)
- MS02-P10 **A statistical method applied to defocussing curves calculation**
B. Aguilar Sanjuan, P. Gomez (Mexico City/MX)
- MS02-P11 **Texture inhomogeneity through the thickness for copper tube**
N. Alhamdany (Garching/DE), H. G. Brokmeier (Clausthal-Zellerfeld/DE)
- MS02-P12 **Influence of mechanical defects on the crystal lattice of silicon**
T. Jauß, A. Danilewsky, J. Wittge, A. Cröll, J. Garagorri (Freiburg/DE), E. Reyes D. Allen (San Sebastian/ES), P. McNally (Dublin/IE)
- MS02-P13 **X-ray diffraction analysis of epitaxial ZnO/a-Al₂O₃ thin film**
N. Anouar (Sfax/TN), D. Schneider (Dresden/DE), H. Fuess (Darmstadt/DE)
M. Ben Ghazlen (Sfax/TN)
- MS02-P14 **Thermal stability and quantification of hydrogen release of NaBH₄ enclosed in aluminosilicate gels**
L. Schomborg, C. Rüscher, J.-C. Buhl (Hanover/DE)
- MS02-P15 **Development of a novel system for building artificial metalloenzymes for enantioselective catalysis**
M. Genz, D. Singer, J. Holldorf, E. Hey-Hawkins, R. Hoffmann, N. Sträter (Leipzig/DE)
- MS02-P16 **Synthesis and crystal structure of CoEu₂Si₃O₁₀**
M. Wierzbicka-Wieczorek (Jena/DE), G. Giester (Vienna/AT)
- MS02-P17 **Crystal structure of hemicarboaluminate cement phase**
T. Runcevski, R. Dinnebier (Stuttgart/DE), H. Pöllmann (Halle/DE)

MS03 Biocrystallography and Medicine

- MS03-P02 **Structural studies of DnaK in complex with proline rich antimicrobial peptides**
M. Zahn, D. Knappe, N. Berthold, R. Hoffmann, N. Sträter (Leipzig/DE)
- MS03-P03 **Pharmaceutical cocrystals as models for the study of drug-receptor interactions**
M. Tutughamiarso, E. Egert (Frankfurt a. M./DE)
- MS03-P04 **Structure determination complicated by tetragonal pseudosymmetry**
S. Barden, H. Niemann (Bielefeld/DE)
- MS03-P05 **Unraveling the function of uncharacterized operons in pseudomonas aeruginosa**
C. Feiler (Bayreuth/DE), D. V. Mavrodi, L. S. Thomashow
W. Blankenfeldt (Pullman, WA/US)

MS05 Frontiers in Structural Analyses – Electron Density and other Precision Studies

- MS05-P01 **Behind the scenes – an insight into the crystal energy landscapes of two new dimeric toluene-2,4-diisocyanate polymorphs**
L. Vella-Zarb, R. Dinnebier (Stuttgart/DE)
- MS05-P02 **From X-ray macro- and microstructure characterization substances and materials to sub-nano and electronic levels**
B. Kodess, P. Kodess (Moscow/RU)
- MS05-P03 **Static and dynamic charge densities of Lysozyme**
J. Netzel, S. van Smaalen (Bayreuth/DE)
- MS05-P04 **A new access to extinction corrections**
A. K. Hüsecken (Dortmund/DE), U. Pietsch (Siegen/DE)
- MS05-P05 **Direct insight into the effect of protonation and deprotonation of an organic molecule – the case of sulfadiazine**
F. Pan, R. Wang, U. Englert (Aachen/DE)
- MS05-P06 **The generalized invariom database**
B. Dittrich, C. Hübschle, K. Pröpper, T. Stolper (Göttingen/DE)

- MS06 Hot New Biomolecular Structures**
- MS06-P01 **Crystal structure of nicotiana tabacum malonyltransferase (NtMatI) in complex with its cofactor malonyl-CoA (MLC)**
C.-J. Liu (New York, NY/US), Babu Manjasetty (Grenoble/FR)
X.-H. Yu (New York, NY/US), S. Panjikar (Victoria/AU)
M. Chance (Cleveland, OH/US), G. Taguchi (Tokida/JP)
- MS06-P02 **SiiE – insights into a giant 5559 amino acids adhesin of *Salmonella enterica***
M. Grießl, Y. A. Muller (Erlangen/DE)
- MS06-P03 **The trans-dienelactone hydrolase from *Cupriavidus necator* – a novel metalloenzyme**
C. Roth (Leipzig/DE), S. Wegener, M. Schlömann (Freiberg/DE)
N. Sträter (Leipzig/DE)
- MS06-P04 **Crystal structure of the autochaperone region of the *Shigella flexneri* autotransporter IcsA**
K. Kühnel, D. Diezmann (Göttingen/DE)
- MS06-P05 **Structural basis for furaneol formation in strawberry fruits**
A. Schiefner, Q. Sinz, I. Neumaier, W. Schwab, A. Skerra (Freising-Weihenstephan/DE)
- MS06-P06 **Structure of a classical MHC class I molecule that binds “non-classical” ligands**
B. Loll, C. Seng Hee, S. Gao (Berlin/DE), M. M. Miller (Duarte, CA/US)
B. Uchanska-Ziegler, O. Daumke, A. Ziegler (Berlin/DE)
- MS06-P07 **The inhibited conformation of the eukaryotic Rrp44 exonuclease**
D. Lika Makino, M. Baumgartner, F. Bonneau, E. Conti (Martinsried/DE)
- MS06-P08 **Crystal structure of intraflagellar transport complex 25/27**
E. Lorentzen, S. Bhogaraju (Martinsried/DE)
- MS06-P09 **Protein kinase domain of CTR1 from *Arabidopsis thaliana* promotes ethylene receptor cross-talk**
H. Mayerhofer, S. Panneerselvam, J. Mueller-Dieckmann (Hamburg/DE)

MS07 Pressure-, Field-, & Temperature-Induced Processes

- MS07-P01 **Thermal stability of metastable fcc-(Ti,Al)N in nanoscaled TiN/AlN multilayers**
U. Ratayski (Freiberg/DE), F. Klimaschin (Freiberg/DE; Moscow/RU), U. Mühle
D. Rafaja (Freiberg/DE)
- MS07-P02 **Temperatur- und feuchteabhängige Untersuchungen von Kanemit
(NaHSi₂O₅ * 3 H₂O)**
D. Schmidmair, V. Kahlenberg (Innsbruck/AT), D. Toebbens (Berlin/DE)
J. De Wit, U. Griesser (Innsbruck/AT)
- MS07-P03 **Partikelwachstum durch 3D-Rotation und Koaleszenz mittels Röntgenpulver-
beugung in mesoskaligem NiO aufgedeckt**
M. Petrik, B. Harbrecht (Marburg/DE)
- MS07-P04 **Real structure of TSSG grown large Barium hexaferrite single crystals studied by
white beam X-ray transmission topography**
J. Kräußlich, C. Dubs, O. Wehrhan, P. Görnert (Jena/DE)
- MS07-P05 **High (pressure, temperature) phase diagrams of ZnO and AlN from second
harmonic generation measurements**
L. Bayarjargal, B. Winkler (Frankfurt a. M./DE)
- MS07-P06 **High resolution X-ray diffraction study of single crystals of lead zirconate titanate**
S. Gorfman (Siegen/DE), D. Keeble (Coventry/GB), M. Glazer (Oxford/GB)
Z.-G. Ye (Burnaby/CA), P. Thomas (Coventry/GB)
- MS07-P07 **X-ray diffraction and spectroscopic study of selected amino acids and their
derivatives at extreme conditions – high pressures and low temperatures**
B. Zakharov, E. Boldyreva, B. Kolesov (Novosibirsk/RU)
- MS07-P08 **Thermal expansion of mullite-type Bi₂Fe₄O₉**
M. M. Murshed (Bremen/DE), H. Krüger (Innsbruck/AT), M. Burianek (Cologne/DE)
G. Nénert (Grenoble/FR), V. Kahlenberg (Innsbruck/AT), M. Mühlberg (Cologne/DE)
H. Schneider (Cologne/DE, Bremen/DE), R. Fischer, T. Gesing (Bremen/DE)
- MS07-P09 **High pressure behavior of wadeite K₂ZrSi₃O₉**
N. Niederwieser, C. Hejny (Innsbruck/AT)
- MS07-P10 **The effect of pressure, cooling rate and shear rate on the morphology of isotactic
polypropylene**
S. Jilg, R. Forstner (Wels/AT)

- MS07-P11 **Experimental determination of orientation relations between the high- and low-pressure phases of InAs**
N. Pukallus, H. Sowa, H. Klein (Göttingen/DE)
- MS07-P12 **Domain redistribution in SrTiO₃ by application of electric fields and mechanical stresses**
J. Sidoruk, J. Leist, H. Gibhardt (Göttingen/DE), K. Hradil (Vienna/AT)
B. Pedersen, M. Meven (Garching/DE), G. Eckold (Göttingen/DE)
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J. Zhang, A. Wölfel, M. Bykov (Bayreuth/DE), R. Kremer (Stuttgart/DE)
S. van Smaalen (Bayreuth/DE)
- MS07-P14 **Interaction between point defects and higher dimensional defects in SrTiO₃**
J. Hanzig, B. Abendroth, F. Hanzig, H. Stöcker, D. C. Meyer (Freiberg/DE)
- MS07-P15 **Negative thermal expansion in chalcopyrite type multinary semiconductors**
S. Schorr, C. Stephan (Berlin/DE)
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N. Dubrovinskaia, G. Parakhonskiy, E. Bykova (Bayreuth/DE)
M. Hanfland (Grenoble/FR), M. Merlini (Milano/IT), L. Dubrovinsky (Bayreuth/DE)
- MS07-P17 **In situ structural studies at conditions of earth and planetary mantles and cores: techniques and applications**
L. Dubrovinsky, K. Glazyrin, T. Boffa-Ballaran, E. Bykova
N. Dubrovinskaia (Bayreuth/DE), M. Merlini (Milano/IT), M. Hanfland (Grenoble/FR)
- MS08 Spectroscopy**
- MS08-P01 **Application of a pnCCD in macromolecular crystallography**
S. Send, A. Abboud (Siegen/DE), W. Leitenberger (Potsdam/DE)
M. S. Weiss (Berlin/DE), R. Hartmann (Munich/DE), L. Strüder (Siegen/DE, Munich/DE)
U. Pietsch (Siegen/DE)
- MS08-P02 **X-ray diffraction, magnetization, and ⁵⁷Fe Mössbauer spectroscopic characterization of natural single-crystals of chrysoberyl**
F. J. Litterst, S.-U. Weber (Braunschweig/DE), W. Lottermoser, G. Amthauer (Salzburg/AT)
- MS08-P03 **A table top picosecond pulsed X-ray and laser induced fluorescence spectrometer based on a streak camera system using 2D-photon counting**
N.-P. Pook, A. Adam, J.-C. Fruhner (Clausthal-Zellerfeld/DE), T. Franzl
U. Denzer (Herrsching/DE)

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T. Beirau, C. Paulmann, B. Mihailova, U. Bismayer (Hamburg/DE)
- MS08-P05 **Characterisation of Lithium Local Environments in Lithium Cathode Materials by ^6Li and ^7Li MAS NMR Spectroscopy**
J. Kovacevic, M. Fechtelkord (Bochum/DE), D. Mikhailova (Dresden/DE)
H. Ehrenberg (Eggenstein-Leopoldshafen/DE)
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D. Ksenzov, A. Davtyan, F. Schäfers, U. Pietsch, S. Grigorian (Siegen/DE)
- MS08-P07 **Optical spectroscopy on MnWO_4**
L. Dura, H. Gibhardt, J. Leist (Göttingen/DE), L. Bohaty, P. Becker (Cologne/DE)
G. Eckold (Göttingen/DE)
- MS08-P08 **Structure-property relationships in silicates – thermal expansion and elasticity of synthetic emerald**
P. Schröer, J. Schreuer (Bochum/DE)
- MS08-P09 **Structure-property relationships in silicates – thermal expansion and elasticity of natural scapolite**
K. Demtröder, P. Schröer, A. Bürger, J. Kovacevic, J. Schreuer (Bochum/DE)
- MS08-P10 **Electronic structure of single-crystalline $\text{Sr}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ probed by x-ray absorption spectroscopy – strong evidence for isovalent substitution of Fe^{2+} by Co^{2+}**
M. Merz, F. Eilers, T. Wolf, P. Nagel, H. von Löhneysen
S. Schuppler (Eggenstein-Leopoldshafen/DE)
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A. Schulz, C. Rüscher, J. Buhl (Hanover/DE)
- MS08-P12 **Thermal decomposition of sodium zincophosphate sodalite examined by autocorrelation analysis of temperature dependent FTIR spectra**
L. Robben, T. M. Gesing (Bremen/DE)

- MS09** **Structure of Biological Macromolecular Complexes**
- MS09-P01 **Elaboration of new objects belonging to coordination chemistry and molecular magnetism**
M. Amel (Lyon/FR), B. Nouredine (Khenchela/DZ), D. Luneau (Lyon/FR)
- MS09-P02 **The class C Vps tethering complexes HOPS and CORVET**
H. Peters, U. Heinemann (Berlin/DE)
- MS09-P03 **The Lin28 cold shock domain acts as an RNA chaperone**
F. Mayr, A. Schuetz, U. Heinemann (Berlin/DE)
- MS09-P04 **Structural basis of allosteric regulation of eukaryotic phosphofructokinases**
M. Kloos (Leipzig/DE)
- MS11** **Aperiodic Crystals**
- MS11-P01 **Layer disorder in sodium-bismuth-titanate thin films grown by liquid-delivery spin MOCVD**
M. Schmidbauer, J. Schwarzkopf, V. Kopp, V. Kaganer, A. Duk, F. Waidick
A. Kwasniewsk, T. Remmele (Berlin/DE)
- MS11-P02 **One dimensional liquid-like disorder and phase ordering phase transition in short alkanes/urea inclusion compounds**
C. Mariette, L. Guérin, P. Rabiller, B. Toudic, M. D. Hollingsworth (Rennes/FR)
- MS11-P03 **The superstructure of trimethyltin hydroxide described in higher-dimensional superspace**
S. Dey, A. Schönleber, S. van Smaalen (Bayreuth/DE)
- MS11-P04 **Comparison of two structural models, “Superstructure” and “Modulated Structure” for cocrystal of phenazine chloroanilic acid at T=100 K**
L. Noohinejad, S. van Smaalen, S. Mondal (Bayreuth/DE)
- MS11-P05 **X-ray diffraction study of TiPO₄ structure at low temperatures**
M. Bykov, J. Zhang, A. Schönleber, S. van Smaalen (Bayreuth/DE)
J. Law, R. Kremer (Stuttgart/DE), R. Glaum (Bonn/DE)

- MS12 Theory & Simulation**
- MS12-P01 **Simulations of structure, growth and equilibrium form of GdVO₄ crystals**
M. Nicolov (Arad/RO)
- MS12-P02 **Surface energy calculations of fcc-, bcc- and hcp-metals by application of the bond deficiency model**
A. Mutter (Cambridge/GB)
- MS12-P03 **3D-PDF analysis of disordered single crystals**
T. Weber, A. Simonov (Zurich/CH)
- MS12-P04 **CCL – an algorithm for the efficient automatic comparison of clusters**
J. C. Schön (Stuttgart/DE), R. Hundt (Bonn/DE), M. Jansen (Stuttgart/DE)
- MS12-P05 **A forcefield simulation study – properties of amino acids on the magnetite-(111)-surface**
A. Bürger, U. Magdang, H. Gies (Bochum/DE)
- MS12-P06 **Molekularmechanische Simulation von Nitraminen mit dem Kraftfeld COMPASS**
P. B. Kempa, M. Herrmann (Pfinztal/DE)
- MS12-P07 **Calculation of thermodynamic parameters of melts from liquidus-curves**
B. Simons (Cologne/DE)
- MS12-P08 **Stacking disorder and diffuse scattering in tris(bicyclo[2.1.1]hexeno)benzene evaluated by lattice-energy minimisation**
J. Glinnemann, M. U. Schmidt (Frankfurt a. M./DE)
- MS12-P09 **Application of the maximum entropy method to X-ray powder diffraction data of ionic conductors**
O. V. Magdysyuk, R. E. Dinnebier, M. Jansen (Stuttgart/DE)
- MS12-P10 **Structure and IR spectra of Na₈[AlSiO₄]₆(BH₄)₂ sodalite – comparison between theoretical predictions and experimental data**
M. Marcus, T. Bredow (Bonn/DE), L. Schomborg, C. H. Rüscher
J.-C. Buhl (Hanover/DE)
- MS12-P11 **Diffraction anomalous fine structure of Ho₂PdSi₃ and YMn_{2-ξ}Fe_ξO₅**
M. Nentwich, M. Zschornak (Freiberg/DE), C. Richter (Freiberg/DE, Hamburg/DE)
D. C. Meyer (Freiberg/DE)

- MS13 Structure & Function – Biomaterials**
- MS13-P01 **Locally resolved determination of anisotropic properties of human dental enamel**
L. Raue, H. Klein, C. Hartmann (Göttingen/DE)
- MS13-P02 **Rigid structure but mobile unit – crystal engineering as a tool to stabilize the structure – reducing mobility of a side-chain in cysteine containing crystals**
V. Minkov, E. Boldyreva (Novosibirsk/RU)
- MS13-P03 **Structural investigation of isopod cuticle and changes caused by decalcification monitored by sub μ -confocal Raman spectroscopy**
C. Reisecker (Linz/AT), B. Seidl, A. Ziegler (Ulm/DE), S. Hild (Linz/AT)
- MS13-P04 **Eine schwierige Kristallstrukturbestimmung aus Röntgenpulverdaten: Vorzugsorientierung, zwei Chlorid-Ionen auf speziellen Lagen und ein vierfach fehlgeordnetes 2-Butanol**
S. M. Hammer, J. Brüning, N. Nagel, M. U. Schmidt (Frankfurt a. M./DE)
- MS14 Structural Chemistry & Mineralogy**
- MS14-P01 **$K_2Ba_5Si_{12}O_{30}$ – a member of a homologous series among layered potassium barium silicates**
V. Kahlenberg (Innsbruck/AT)
- MS14-P02 **A new thiooxo-rhenate $(Et_4N)_2[(ReO(S_4)_2(\mu_2-S_2)(\mu_2-S))]$ and the reinvestigation of the crystal structure of $(Et_4N)[ReS_4]$**
A. J. Lehner, C. Röhr (Freiburg/DE)
- MS14-P03 **Sillenites – composition, structure, morphology, crystal growth**
T. Melnikova, G. Kuzmicheva, V. Rybakov, N. Bolotina (Moscow/RU)
A. Cousson (Cea, Saclay/FR)
- MS14-P04 **$Ca_xYb_{(1-x)}Ga$ – CrB type and related modulated superstructures**
B. Bauer, C. Röhr (Freiburg i. Br./DE)
- MS14-P05 **Synthesis, crystal structure and 7Li MAS NMR spectroscopy of the new compound $Li_3Zn_{6.9}In_{3.1}$**
V. Mihajlov, C. Röhr (Freiburg i. Br./DE)
- MS14-P06 **Metalide suboxide hydrides $Ba_{21}M_2O_5H_x$**
M. Jehle, (Freiburg/DE), H. Kohlmann (Saarbrücken/DE), H. Scherer
C. Röhr (Freiburg/DE)

- MS14-P07 **Synthesis and crystal structure of the first yttrium(III) bromide oxomolybdate(VI) $\text{YBr}[\text{MoO}_4]$**
I. Hartenbach, H. Henning, T. Schustereit, T. Schleid (Stuttgart/DE)
- MS14-P08 **Derivatives of 2-Aminopyrimidin-4-one – one or two tautomers present in the same crystal**
V. Gerhardt, E. Egert (Frankfurt a. M./DE)
- MS14-P09 **Synthesis and crystal structure of three new K-thioferrates – K_9FeS_7 , K_3FeS_3 and $\text{K}_{1.4}\text{FeS}_2$**
M. Schwarz, C. Röhr (Freiburg i. Br./DE)
- MS14-P10 **Synthesis and crystal structure of the new cesium ruthenate hydrate $\text{Cs}_2[\text{RuO}_3(\text{OH})_2] \cdot \text{H}_2\text{O}$**
C. Hoch, C. Lenk (Stuttgart/DE)
- MS14-P11 **Crystal structure and phase transition of anhydrous copper(II) acetate, $\text{Cu}(\text{CH}_3\text{COO})_2$ and its relationship to copper(II) acetate monohydrate**
F. Preuschl, M. Wildner (Vienna/AT)
- MS14-P12 **Crystals and quasicrystals**
I. Leban (Ljubljana/SI)
- MS14-P13 **Introducing disorder into CaF_2 -Type $\text{Cs}_2[\text{B}_{12}\text{H}_{12}]$**
C. Hoch, L. W. Zimmermann, T. Schleid (Stuttgart/DE)
- MS14-P14 **Pb_5TeO_8 – a lead-rich oxotellurate(VI) previously reported as “ Pb_3TeO_6 ”**
M. Weil (Vienna/AT)
- MS14-P15 **Crystal structures of proline-derived enamines**
D. A. Bock, C. W. Lehmann, B. List (Mülheim an der Ruhr/DE)
- MS14-P16 **Kristallstrukturbestimmung des Bis-Kuppler-Azopigments P.Y. 155 aus Labor-Röntgenpulverdaten**
J. Brüning, E. Alig (Frankfurt a. M./DE), S. N. Ivashevskaja (Petrozavodsk/RU)
J. van de Streek (Frankfurt a. M./DE; Freiburg i. Br./DE), M. U. Schmidt (Frankfurt a. M./DE)
- MS14-P17 **“Umweganregung” in single crystal neutron diffraction experiments and its impact on the symmetry determination of bismuth metal oxides**
J. Birkenstock (Bremen/DE), E. Rossmannith (Hamburg/DE), G. Nénerth (Grenoble/FR)
T. M. Gesing (Bremen/DE), H. Schneider (Cologne/DE), R. X. Fischer (Bremen/DE)
- MS14-P18 **Crystal structures of magnesium chloride hydrates**
H. Schmidt, E. Hennings, W. Voigt (Freiberg/DE)

- MS14-P19 **Low temperature hydrates of sodium salts**
E. Hennings, H. Schmidt, W. Voigt (Freiberg/DE)
- MS14-P20 **Synthesis and crystal structure of 1-(3-cyanopropyl)-3-methylpyridin-1-ium hexachloridoantimonate(V)**
M. Gjikaj, J. Zahlbach (Clausthal-Zellerfeld/DE)
- MS14-P21 **The crystal structure of the hydrated acid $(\text{H}_3\text{O})_2[\text{B}_{12}(\text{OH})_{12}] \cdot 3 \text{H}_2\text{O}$ displaying the dodecahydroxo-closo-dodecaborate anion**
L. W. Zimmermann, T. Schleid (Stuttgart/DE)
- MS14-P22 **Novel amides and amines of gallium – a brief discussion on synthesis and their crystal structures**
S. Zhang, R. Niewa (Stuttgart/DE)
- MS14-P23 **$\text{La}_{10.25}\text{O}_{0.25}\text{N}_{0.75}\text{Se}_{14}$ – the first lanthanum oxide nitride selenide with a stuffed $\text{Pr}_{10}\text{OS}_{14}$ -type structure and subtle interactions of La^{3+} cations**
C. M. Schurz, T. Schleid (Stuttgart/DE)
- MS14-P24 **The first quaternary potassium copper erbium sulfide – KCuEr_2S_4**
M. A. Eberle, T. Schleid (Stuttgart/DE)
- MS14-P25 **The anomalous annealing behaviour of Eifel sanidines – status quo and new approach with neutron diffraction**
J. Kähn, S. Schorr (Berlin/DE)
- MS14-P26 **Practical considerations concerning the efficient use of resonant X-ray scattering for distinguishing elements with similar electron count**
S. Welzmler, P. Urban (Leipzig/DE; Munich/DE), F. Fahrnbauer (Munich/DE)
L. Erra (Grenoble/FR), O. Oeckler (Leipzig/DE; Munich/DE)
- MS14-P27 **Synthesis and crystal chemistry of manganese melilites and related phases**
S. Stöber, H. Pöllmann (Halle/DE)
- MS14-P28 **Element distribution and temperature-dependent changes in the crystal structure of $\text{Ge}_2\text{Sb}_2\text{Te}_5$**
P. Urban (Leipzig/DE; Munich/DE), L. Erra (Grenoble/FR), F. Fahrnbauer (Munich/DE)
S. Welzmler (Leipzig/DE; Munich/DE), M. Schneider (Munich/DE)
O. Oeckler (Leipzig/DE; Munich/DE)
- MS14-P29 **Crystal structures of ammonium halogenidobismuthates(III)**
W. Frank, S. Schloots, A. Q. Sachawars, W. Poll, S. Jörgens (Düsseldorf/DE)

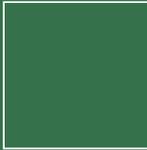
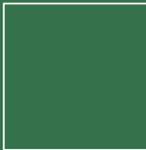
- MS14-P30 **Ordered superstructures of $\text{Cu}_x\text{Ta}_{1+y}\text{S}_2$ at low temperatures**
S. I. Ali, S. van Smaalen (Bayreuth/DE), B. Harbrecht, S. Zörb (Marburg/DE)
- MS14-P31 **Structural characterization and discussion of new tetramethylgermane phases from powder data**
L. Fink, Y. Krysiak, E. Alig, J. Glinnemann, M. Schmidt (Frankfurt a. M./DE)
- MS14-P32 **Structure determination from low-resolution powder diffraction data – crystal structure of the hydrous silicate RUB-52**
H. Gies, B. Marler, R. Wandolski, Z. Li (Bochum/DE)
- MS14-P33 **Anhydrous sodium trifluoroacetate – a 3D coordination polymer with 15 molecules in the asymmetric unit of the crystal structure**
G. Genchev, W. Frank (Düsseldorf/DE)
- MS14-P34 **Average structure of a new hydrous layered TMA-silicate, RUB-55, with silicate layers representing a section of the sodalite as well as octadecasil framework**
B. Marler, A. Grünwald-Lüke, S. Grabowski, H. Gies (Bochum/DE)
- MS14-P35 **Synthesis and crystal structure of AgErS_2 and AgTmS_2**
T. Schleid, S. Strobel, B. Spohn (Stuttgart/DE)
- MS14-P36 **Tm_2TeO_6 – a dimorphic thulium(III) oxotellurate(VI)**
P. Höss, S. Zitzer, T. Schleid (Stuttgart/DE)
- MS14-P37 **Isomorphous gallium substitution in mullite-type $\text{Al}_4\text{B}_2\text{O}_9$**
K. Hoffmann, M. M. Murshed, R. X. Fischer, T. M. Gesing (Bremen/DE)
- MS14-P38 **Crystal structures of short-chain alkali metal alkanesulfonates – anhydrous potassium methanesulfonate, rubidium methanesulfonate hemihydrate and an unusual 13:2 addition compound of potassium ethanesulfonate and potassium bicarbonate**
W. Frank, J. Volk (Düsseldorf/DE)
- MS14-P39 **Pseudo-symmetry and unusual Cu^{2+}O_5 coordination figures in $\text{Na}_{18}\text{Cu}_3(\text{PO}_4)_8 \cdot 2\text{H}_2\text{O}$ and $\text{Na}_{18}\text{Cu}_3(\text{PO}_4)_8 \cdot 2\text{H}_2\text{O}$**
H. Effenberger (Vienna/AT)
- MS14-P40 **Dimorphism of Bismuth(II) trifluoroacetate**
V. Verheyen, W. Frank (Düsseldorf/DE)
- MS14-P41 **Crystal structures of two alkaline earth methanesulfonate hydrates**
T. Trella, V. Verheyen, W. Frank (Düsseldorf/DE)

- MS14-P42 **Complex structures of first uranyl borophosphates, borate phosphate and aluminoborate**
S. Wu (Kiel/DE), S. Wang, J. Diwu (Notre Dame/FR), O. Beermann, W. Depmeier
A. Holzheid (Kiel/DE), T. Malcherek (Hamburg/DE), E. Alekseev (Jülich/DE)
T. Albrecht-Schmitt (Notre Dame/FR)
- MS14-P43 **Morphology and crystal structure of fully hydrated Zeolite Na-A**
R. X. Fischer, M. Šehović (Bremen/DE), W. H. Baur (Western Springs/NZ)
C. Paulmann (Hamburg/DE), T. M. Gesing (Bremen/DE)
- MS15** **Frontiers of Structural Biology Methods**
- MS15-P01 **EMBL mx1 beamline for macromolecular crystallography at Petra III @ DESY, Hamburg**
M. Cianci, G. Bourenkov, S. Fiedler, M. Roessle, T. Schneider (Hamburg/DE)
- MS15-P02 **Startup of macromolecular crystallography beamline P14/MX2@Petra III**
G. Bourenkov, M. Cianci, S. Fiedler, T. Schneider (Hamburg/DE)
- MS15-P03 **EMBL@Petra III – the new biosaxs beamline P12**
M. Roessle, S. Fiedler, G. Bourenkov, M. Cianci (Hamburg/DE), V. Haramus
R. Willumeit (Geesthacht/DE), D. Svergun, T. Schneider, M. Wilmanns (Hamburg/DE)
- MS15-P04 **Facilities for macromolecular crystallography at BESSY II -Berlin**
M. Weiss, M. Bommer, R. Förster, M. Hellmig, M. Krug, K. S. Paithankar, M. Steffien
M. Ühlein, U. Mueller (Berlin/DE)

- MS17 Structure & Function – New and Smart Materials**
- MS17-P01 **Structural and electrochemical studies of the Li-Zn alloys**
I. Chumak (Eggenstein-Leopoldshafen/DE), V. Pavlyuk (Lviv/UA)
 H. Ehrenberg (Eggenstein-Leopoldshafen/DE)
- MS17-P02 **Characterisation of nanocrystalline γ -Fe₂O₃ with synchrotron radiation techniques**
M. Hagelstein, S. Doyle, T. Liu, R. Steininger, D. Szabo
 S. Schlabach (Eggenstein-Leopoldshafen/DE), C. Ferrero, A. Fitch (Grenoble/FR)
 M. Scavini (Milano/IT)
- MS17-P03 **GTECS3D – a new program for graphtheoretical evaluation of extended network structures**
K. Lamberts, C. Merckens, R. Wang, U. Englert, D. Hons, S. Grüter, Y. Guo
 S. Porsche, A. Hamacher, D. Bündgens, T. Kuhlen (Aachen/DE)
- MS17-P04 **Bimetallic coordination networks based on Al(acacCN)₃ – a building block between inertness and lability**
C. Merckens, N. Becker, K. Lamberts, U. Englert (Aachen/DE)
- MS17-P05 **Phase-matched spontaneous parametric down-conversion in optically biaxial crystals, example BiB₃O₆**
P. Becker (Cologne/DE), A. Halevy, E. Megidish, L. Dovrat
 H. S. Eisenberg (Jerusalem/IL), L. Bohatý (Cologne/DE)
- MS17-P06 **$\chi^{(3)}$ - nonlinear optical interactions in aragonite**
L. Bohatý (Cologne/DE), A. A. Kaminskii (Moscow/RU), P. Becker (Cologne/DE)
 H. Rhee, O. Lux, H. J. Eichler (Berlin/DE), V. V. Koltashev (Moscow/RU)
 R. Kleinschrodt (Cologne/DE)
- MS17-P07 **Synthesis and characterisation of new compositions with mullite type structure: Bi₂Cr_xM_{4-x}O₉ (M= Al, Ga) and Bi_{2-x}Sb_xAl₄O₉**
 T. Debnath (Dhaka/BD), C. Rüscher (Hanover/DE), A. Hussain (Dhaka/BD)
 L. Schomborg (Hanover/DE)
- MS17-P08 **Structural study of hydrous neodymium acetates**
P. Held, P. Becker, L. Bohatý (Cologne/DE)
- MS17-P09 **High-pressure investigations of spinel-type LiTM₂O₄ (TM = transition metal) cathode materials**
C. Braun, N. K. Yavuz, E. Reitz (Karlsruhe/DE)
 K. Nikolowski (Eggenstein-Leopoldshafen/DE, Dresden/DE)
 J. M. Gallardo-Amores, M. E. Arroyo-de Dompablo (Madrid/ES)
 H. Ehrenberg (Karlsruhe/DE, Eggenstein-Leopoldshafen/DE)

- MS17-P10 **Analysis of photochromic nanoparticles in silica monolith – a total scattering study**
K.-Y. Hsieh, D. Schaniel, E.-E. Bendeif (Vandoeuvre les Nancy/FR)
- MS17-P11 **Ternary and quaternary mixed valence compounds with interesting electrical properties**
X. Kledi (Tirana/AL), K. Bente, M. Lorenz (Leipzig/DE)
- MS19 Preparative Methods for Crystalline Materials**
- MS19-P01 **The intermediate phase between sodalite and cancrinite – stability investigations of nanocrystals by TIR, STA and hydrothermal leaching**
C. Grader, J.-C. Buhl (Hanover/DE)
- MS19-P02 **Hydrothermal synthesis of eulytite ($\text{Bi}_4(\text{SiO}_4)_3$) crystals**
E. Marina, A. Marin, T. Bublikova, V. Balitsky (Chernogolovka, Moscow Distr./RU)
- MS19-P03 **Synthesis of large single crystal of sugilite**
S. H. Park, J. Heimhilger (Munich/DE)
- MS19-P04 **Neue Einblicke in mehr als 150 Jahre alte anorganisch- organische Hybridmaterialien auf Basis des Elementes Zinn – Synthese und strukturelle Charakterisierung von $[\text{Et}_2\text{Sn}(\text{OH})\text{NO}_3]$**
M. Reichelt, H. Reuter (Osnabrück/DE)
- MS19-P05 **From tin(II) to tin(IV) – one pot synthesis of three coordination compounds with tin in three different oxidation states (II-II/IV-IV) in the presence of fluorine ions and 1,10-phenanthroline**
H. Reuter, S. Schröder, N. Röwekamp-Krugley, M. Imwalle (Osnabrück/DE)
- MS19-P06 **Single crystal growth and characterization of the intermetallic compound InPd**
M. Hahne, P. Gille (Munich/DE)
- MS19-P07 **Characterization of thin films of $\text{Sn}_{1-x}\text{Pb}_x\text{S}$ mixed crystals ($0.0 < x < 0.5$)**
S. Lobe, G. Wagner, R. Kaden (Leipzig/DE), V. Gremenok, V. Lazenka (Minsk/BY)
K. Bente (Leipzig/DE)
- MS19-P08 **Crystalline rare earth complex synthesis by solvent-drop assisted grinding**
U. Baisch (Newcastle/GB)

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Neutronenstreuung für Kristallographen

Im unmittelbaren Anschluss an die Tagung bietet der Arbeitskreis Neutronenstreuung (AK7) vom 15. bis 16. März am Tagungsort einen Einführungskurs in die Neutronenstreuung speziell für kristallographische Fragestellungen an, der sich an Studenten und Wissenschaftler richtet, die einen Einstieg in dieses Thema suchen. Zu den vorgestellten Techniken gehören Pulver- und Einkristalldiffraktion sowie Kleinwinkelstreuung zur Untersuchung kristalliner und magnetischer Strukturen, inelastische Streumethoden zur Bestimmung struktureller und magnetischer Anregungen, die Analyse diffuser Streuung und Spannungsanalyse. Hierzu werden Beispiele aus der Kristallographie, Physik, Chemie, Biologie und den Materialwissenschaften präsentiert. Daneben werden auch praktische Aspekte wie der Zugang zu diesen Methoden an Großforschungseinrichtungen erörtert. Außerdem haben die Teilnehmer die Möglichkeit, intensiv mit den verschiedenen Experten zu diskutieren und die Experimentiereinrichtungen der Forschungs-Neutronenquelle Heinz Maier-Leibnitz (FRM II) in Garching zu besichtigen. Eine Teilnahmegebühr wird nicht erhoben.

Donnerstag, 15. März 2012

13³⁰ Anreise Garching Forschungszentrum
(Personalausweis ist notwendig)

Treffpunkt Forschungs-Neutronenquelle
Heinz Maier-Leibnitz
Lichtenbergstraße 1
85748 Garching

14⁰⁰ Begrüßung und Führung am FRM II
16³⁰ Ende der Führung

Freitag, 16. März 2012, HS A125

09⁰⁰ Pulvermethoden – Kristallstruktur
09⁴⁵ Pulvermethoden – Magnetismus
10³⁰ Kaffeepause
11⁰⁰ Einkristalldiffraktion – Kristallstruktur
11⁴⁵ Einkristalldiffraktion – Magnetismus
12³⁰ Mittagspause
14⁰⁰ Spektroskopie – Phononen/Magnonen
14⁴⁵ Diffuse Streuung
15³⁰ Kaffeepause
16⁰⁰ Materialwissenschaften
16⁴⁵ Biologie – Weiche Materie
17³⁰ Ende der Veranstaltung



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Index of Presenting Authors and Chairs

A		C	
Abrikosov, I.	36	Chumak, I.	59
Ackermann, M.	44	Cianci, M.	58
Adam, M.	29	Cramner, P.	36
Alekseev, E.	37		
Alexa, P.	39	D	
Alhamdany, N.	46	Dahms, S.	38
Ali, S. I.	57	Danilewsky, A.	27
Amel, M.	52	Data, K.	30
Amthauer, G.	32	Davtyan, A.	51
Angel, R.	27, 39	Demtröder, K.	51
Anouar, N.	46	Dey, S.	52
Aroyo, M. I.	35	Diestel, U.	30
Authier, A.	26	Dittrich B.	47
		Dix, I.	29
		Doert, T.	35
B		Dosch, H.	26
Baisch, U.	60	Dubrovinskaia, N.	50
Baker, E. N.	26	Dubrovinsky, L.	50
Barden, S.	47		
Bauer, B.	54	E	
Bayarjargal, L.	49	Eberle, M. A.	56
Becker, P.	59	Eckert, M.	26
Behrendt, K.	35	Effenberger, H.	57
Beirau, T.	51	Ehrenberg, H.	28
Berthold, C.	27	Ehler, H.	28
Berti, G.	44, 45	El-Sayed, K.	28
Bhogaraju, S.	48	Englert, U.	30
Biertümpfel, C.	33		
Birkenstock, J.	55	F	
Bismayer, U.	34, 37, 39	Fabbiani, F.	30
Bock, D. A.	55	Fechtelkord, M.	32
Bohatý, L.	59	Feiler, C.	47
Boldyhyreva, E. S.	49, 54	Fillenberger, S.	33
Bourenkov, G.	58	Fischer, R. X.	58
Bracher, A.	30	Flaig, R.	39
Braden, M.	25, 28	Fortes, D.	37
Braun, C.	59	Friedrich, A.	31
Brokmeier, H.-G.	45, 46	Friese, K.	35
Brüning, J.	55		
Bürger, A.	53	G	
Burghammer, M.	27	Gan, W.	44
Burkhardt, A.	44	Gäl, Z.	45
Bykov, M.	52	Genchev, G.	57
Bykova, E.	32	Genz, M.	46
		Gerhardt, V.	55
		Gibhardt, H.	51
		Gies, H.	57
		Glinnemann, J.	53
		Gnutzmann, T.	37
		Gomez, P.	46
		Gorfman, S.	34, 49
		Grader, C.	60
		Graf, J.	40
		Griesshaber, E.	37, 38
		Grießl, M.	48
		Gröschel, A.	29
		Grünwald, M.	33
		Grzechnik, A.	32
		Guerin, L.	35
		Gutmann, M.	37
		H	
		Hagelstein, M.	59
		Hahne, M.	60
		Hammer, S.	54
		Hanzig, J.	50
		Hartenbach, I.	55
		Hartmann, A.	27
		Hartmann, C.	27
		Haussühl, E.	32, 34
		Heinemann, U.	40
		Held, P.	59
		Hennings, E.	56
		Hinterstein, M.	34
		Hoch, C.	55
		Hoelzel, M.	27
		Hoffmann, R.	39, 47
		Hoffmann, K.	57
		Hopfner, K.-P.	25, 30, 40
		Höss, P.	57
		Hsieh, K.-Y.	60
		Huber, R.	26
		Hübschle, C. B.	30
		Hüsecken, A. K.	47

J

Jansen, M.	25, 31	Marler, B.	57	Peters, H.	52
Jauß, T.	46	Martin, S.	45	Petrik, M.	49
Jehle, M.	54	Marx, B.	40	Petrov, V.	46
Jeyaprakash, A. A.	30	Mayr, F.	52	Pietsch, U.	27
Jilg, S.	49	Mehner, E.	39	Pook, N.-P.	50

K

Kadletz, P. M.	33	Meldrum, F.	25, 38	Poulsen, H.F.	26
Kahlenberg, V.	45, 54	Melnikova, T.	54	Prymak, O.	37
Kähn, J.	56	Merkens, C.	59	Pukallus, N.	50
Kelm, K.	38	Merz, M.	51	Puschmann, H.	44
Kempa, P. B.	53	Metzger, S. J.	37		
Kisker, C.	28	Meven, M.	27, 39	Q	
Kloos, M.	52	Meyerheim, H. L.	39	Quiroga, C.	32
Kodess, B.	47	Mihajlov, V.	54		
Kovacevic, J.	51	Mittl, P.	28	R	
Kräußlich, J.	49	Mondal, S.	30	Raabe, G.P.	35
Krug, U.	30	Mueller, U.	38	Rafaja, D.	27
Kühnel, K.	48	Müller, M.	27, 35	Raghunandan, R.	45
Kurnosov, A.	27	Murshed, M. M.	49	Ram, F.	29
Küttner, B.	28	Mutter, A.	53	Ratayski, U.	49

N

		Neder, R.	37, 39	Reichert, M.	60
		Nentwich, M.	53	Reisecker, C.	54
L		Netzel, J.	47	Reuter, H.	60
Lamberts, K.	59	Nicolov, M.	53	Rius, J.	39
Leban, I.	55	Niederwieser, N.	32, 49	Robben, L.	51
Lecomte, C.	30	Nolze, G.	29	Roessle, M.	58
Lehmann, C.	30	Noohinejad, L.	52	Rosenthal, T.	29
Lehner, A. J.	54			Roske, Y.	33
Lobe, S.	60	O		Roth, C.	48
Loetzsch, R.	40	Oppen, D.	44	Rueggeberg, M.	38
Loll, B.	48	Ostermann, A.	45	Runcevski, T.	46
Lottermoser, W.	33	Ott, H.	44	Russo, L.	45
Luger, P.	30	Otte, K.	36		
Lühns, H.	37			S	

M

Magdysyuk, O. V.	53	P		Samtleben, T.	29, 44
Maier, B.	34	Pan, F.	47	Santos, K.	31
Makino, D. L.	48	Pandey, C. S.	34	Saxe, F.	38
Manjasetty, B.	48	Park, S. H.	60	Schaub, P.	35, 46
Marcus, M.	53	Paulmann, C.	44	Scheu, C.	29
Mariette, C.	52	Pawlas, G.	46	Schiefner, A.	48
Marina, E.	60	Pecher, O.	32	Schlegel, M.-C.	45
		Pentcheva, R.	35	Schleid, T.	57
				Schlichting, I.	25, 36

	U	
Schloots, S.	56	Urban, P. 56
van Smaalen, S.	35	
Schmahl, W. W.	38	V
Schmalen, I.	28	Vella-Zarb, L. 47
Schmidbauer, M.	52	Verheyen, V. 57
Schmidmair, D.	49	Vit, A. 28
Schmidt, H.	55	Volk, J. 57
Schmitzova, J.	31	
Schneider, T. R.	38	W
Schnick, W.	31	Wahl, M. 33
Schomborg, L.	46	Weber, S.-U. 33, 50
Schön, J. C.	53	Weber, G. 33
Schönleber, A.	34	Weber, T. 53
Schorr, S.	50	Weckert, E. 25, 34
Schreiner, M.	28	Weidenthaler, C. 39
Schreuer, J.	39	Weil, M. 55
Schröder, T.	39	Weiss, I. 33
Schroer, C.	33	Weiss, M. 38, 58
Schröer, P.	51	Welzmilller, S. 56
Schulz, A.	51	Wildner, M. 55
Schurz, C. M.	56	Wiehl, L. 32
Schwalbe, C. H.	45	Wierzbicka-Wieczorek, M. 46
Schwarz, M.	55	Will, J. 29
Schwarzenbach, D.	26	Wu, S. 58
Send, S.	50	
Senyshyn, A.	28	Z
Shi, J.	34	Zahlbach, J. 56
Sidoruk, J.	50	Zahn, M. 47
Simonov, A.	40	Zhang, J. 50
Simons, B.	53	Zhang, S. 56
Smith, V.	38	Ziegler, A. 37
Sommerdijk, N.	29, 37	Zimmermann, L. W. 55
Stadler, A.	45	
Stephan, C.	44	
Stöber, S.	56	
Stöger, B.	35	
T		
Than, M.	28	
Thomas, N.	35	
Trots, D.	32	
Tutughamiarso, M.	47	

Mehr als blau



Die Zeitschrift

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