



Hybrid events: Everything you need to know

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Bas Schot

Prof. Radomír Kužel

On-site events

Do you miss
the on-site meetings
as much as we do?



On-site events

Create a perfect environment for **networking, brainstorming** and **joint problem solving** while **increasing engagement** among all types of attendees.

Create connection and **build a long-term relationship**



On-site events

Demanding budget (travel, rentals, AV, catering, etc.)

They are easily **affected by global or local influences**. On top of that, **environmental impacts** may be higher **due to mass travel**.





Virtual events

Require **less advance planning** than in-person events.

Give more flexibility for selected last minute changes.

Create **more cost-effective** event.



Virtual events

Provide more accurate **data analytics** and **reports**.

Possible **wider audience reach**.

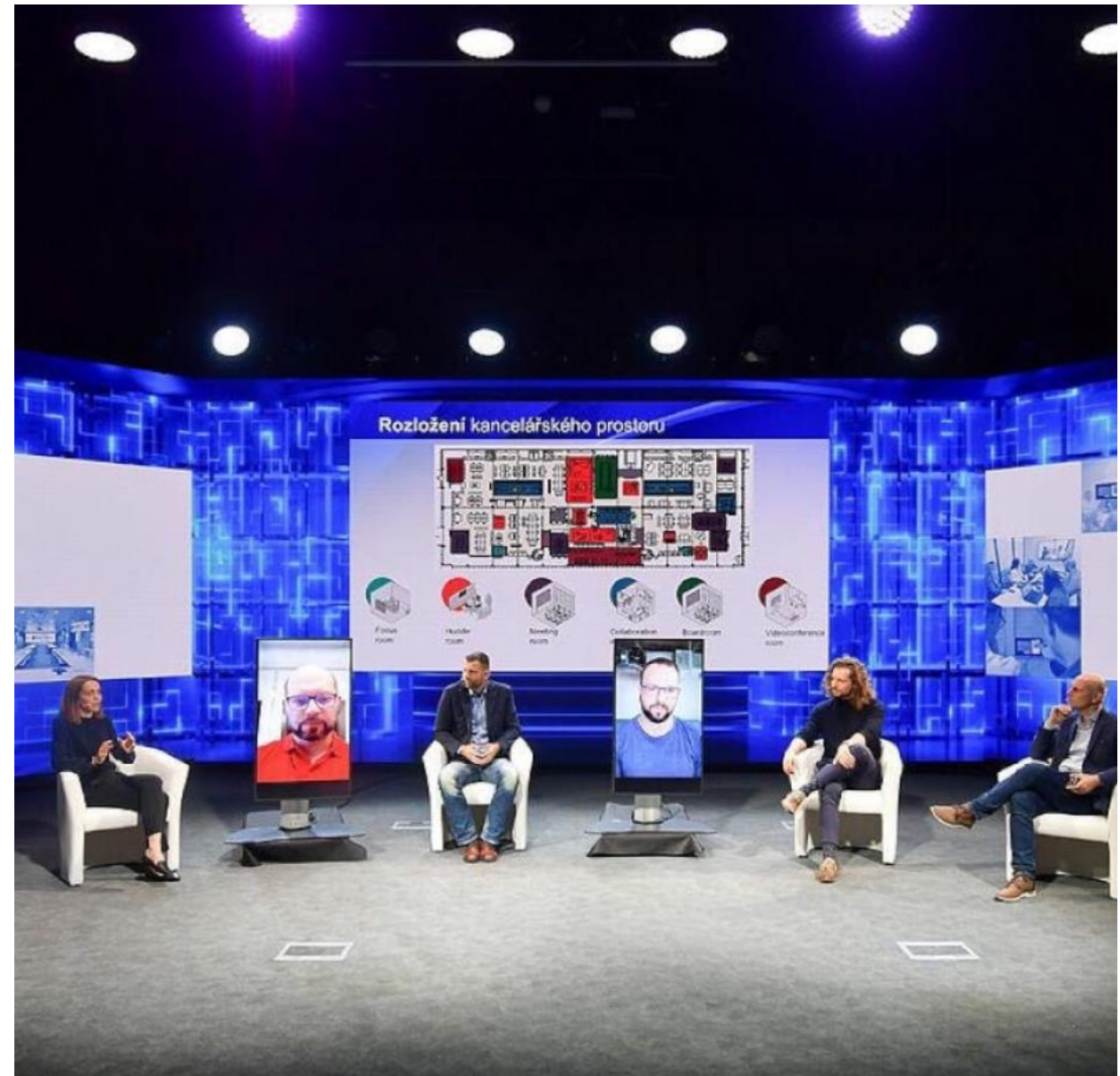
Content might be **available** after the event **via recording** or even **on-demand** (new revenue stream)

Hybrid events

Engage features so both groups have a **similar or completely different experience.**

Include **remote speakers.**

Overcome meeting space limitations if needed.



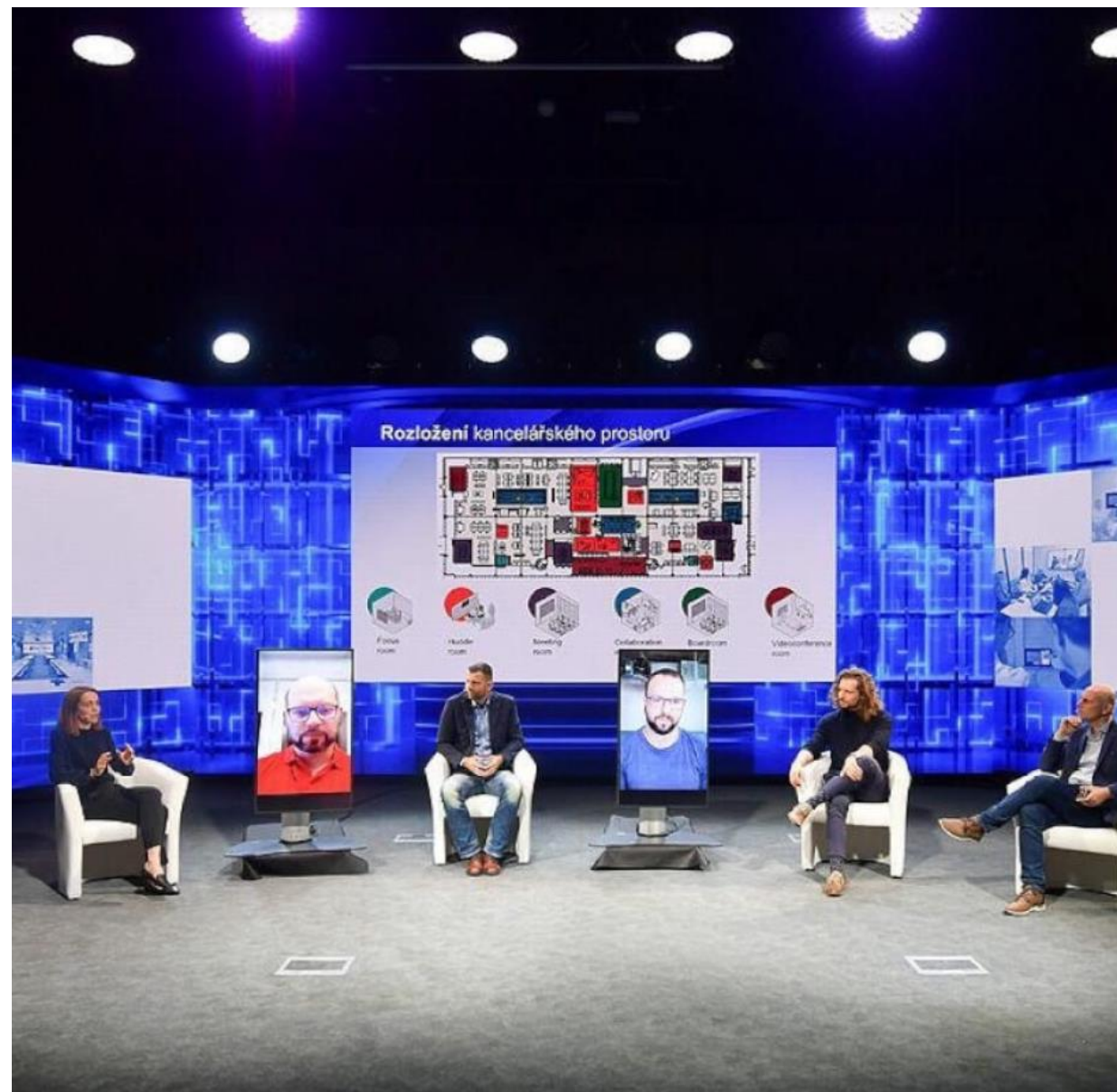
Hybrid events

Additional content to be provided
via online platform

**throughout the year. Continuous
engagement with members.**

**Delegates can choose their
experience.**

**Support accessibility
& inclusivity.**





CITY ALLIANCE

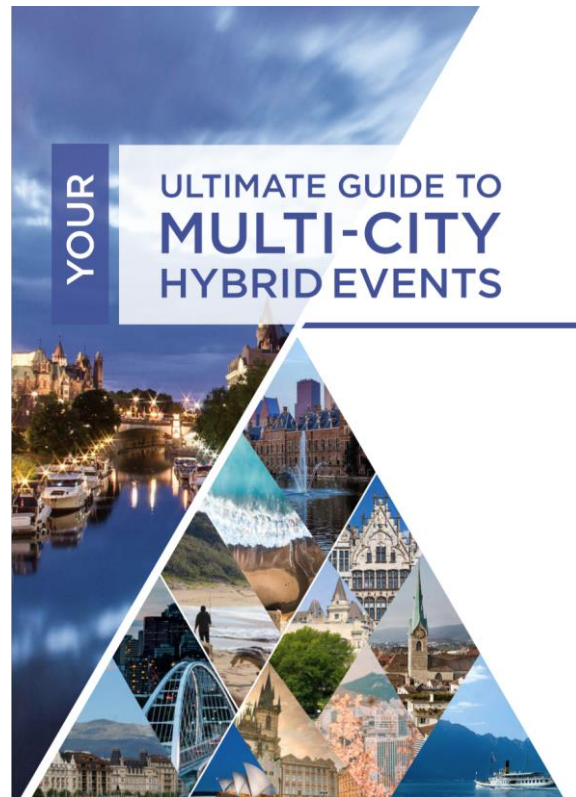
The Hybrid City Alliance

UIA ASSOCIATIONS
Round Table Europe

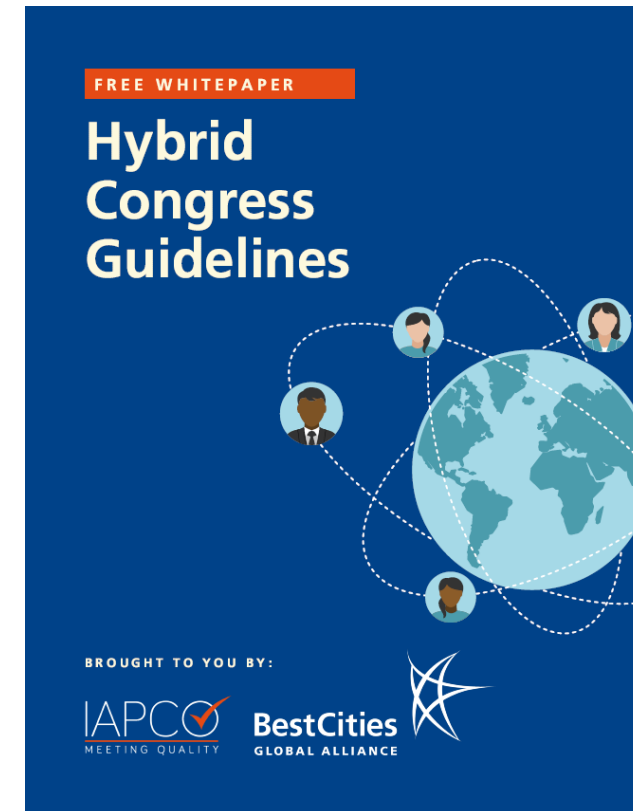


Various White Papers created:

- <https://www.hybridcityalliance.org/>



- <https://www.iapco.org/whitepapers/>



Learnings:

- Structure & modus operandi
- Bid guidelines
- Meeting design
- Finance
- Risk Management
- Sustainability

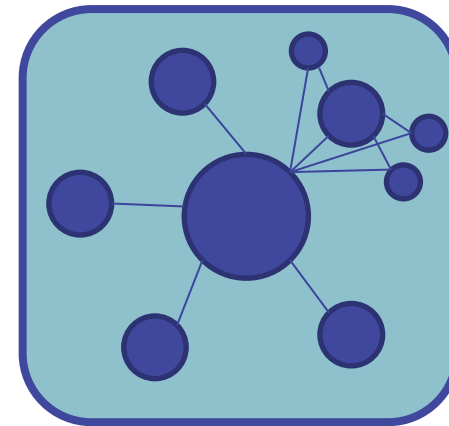
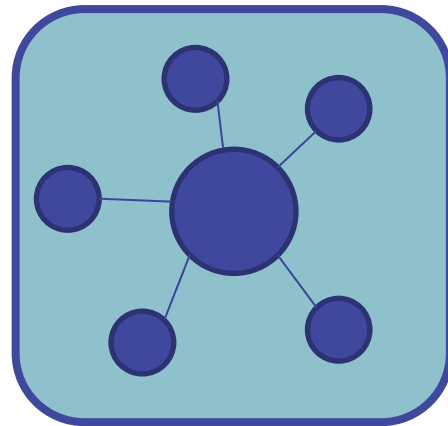
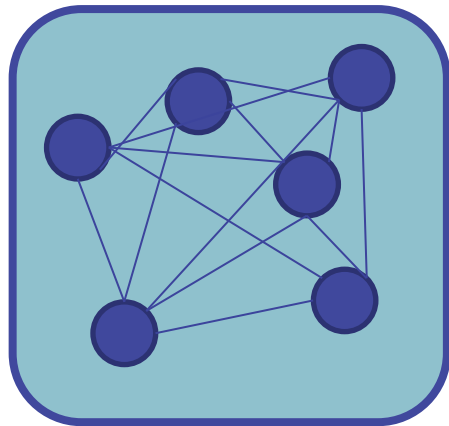
Multi-City Hybrid Event (MCHE)

An event with an in-person and online component



Multi-City Hybrid Event (MCHE)

An event which happens in multiple cities



1

Design



2

Sustainability



3

Risk Management



1

Design



One event with multiple experiences

Design for the delegates at that location

Design



Content and
Sessions

Networking

Financing

1

Design



1. Content and Sessions

One event with multiple experiences

Design for the delegates at that location



1. Content and Sessions

01

Create content with the distribution channel in mind

02

Create content that is relevant for delegates at that location

03

Create touch points to weave multiple locations together

04

In person experience should justify the travel

05

The event takes advantage of having multiple locations

06

Design for multiple time zones

1

Design



2. Networking

One event with multiple experiences

Design for the delegates at that location

1

Design



2. Networking

01

Smaller break-out sessions

02

Themed activities

03

Hosts

1

Design



3. Financing

Do Multi-City Hybrid Events just raise costs?

Design



3. Financing

Costs

- 01 Personnel to create event
- 02 Personnel at event
- 03 Speaker / MC
- 04 Location costs
- 05 Food & Bev
- 06 IT fees

Revenue

- 01 Delegate Rev
- 02 Sponsorship Rev

Digital video fees, broadcast fees, collaboration software costs, technical support costs, production fees

1

Design



3. Financing

Create an event that meets the event goals, not one that just includes a laundry list of what is possible

2

Sustainability

Four pain points



01

Can be hard to apply to a Multi City Hybrid Context

02

Getting an accurate footprint assessment is hard

03

Different locations have different standards

04

Environmental standards are evolving

2

Sustainability



Potential ideas

01

Create a green policy

02

Find sustainable suppliers for each location

03

Organize virtual exhibition halls

04

Engage delegates in sustainability

05

Minimize printed materials

06

Make the eco-footprint visible to delegates

07

Consider more hubs

Risk



Technology

Health and
Safety

3

Risk



Technology

Challenge: Lack of Skills

01

Event organizers

Full time tech employee

02

Delegates

Pre-training and tech-checks

03

Speakers

Increase staff to work with speakers

3

Risk



Health and Safety

01

Event closure

Contract negotiation

02

Situation changes while planning

Local teams, Define health guidelines up front

03

Delegate and Staff safety

Locations, Protocols, Food & Bev

Special Project - Alliance Event/Fam Trip

Goal: Walk the Talk - showcase a multi-city event!

24th February 2022

Audience: meeting planners, associations or corporates

Programme: 2-day event



Thank You

www.hybridcityalliance.org



General Assembly and Congress of the International Union of Crystallography



www.iucr.org

IUCr

Czechoslovakia was accepted in the IUCr immediately after the first Congress of the IUCr in Boston in 1948 as the fifth member with USA, UK, Norway and Canada!!!.

General assembly and congress – triennial, 1500-2500 participants



WELCOME TO THE INTERNATIONAL UNION OF CRYSTALLOGRAPHY

The IUCr is an International Scientific Union. Its objectives are to promote international cooperation in crystallography and to contribute to all aspects of crystallography, to promote international publication of crystallographic research, to facilitate standardization of methods, units, nomenclatures and symbols, and to form a focus for the relations of crystallography to other sciences. [Read more »](#)

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PUBLICATIONS

Primary research journals, reference works and monographs of the highest quality



OUTREACH

Crystallography around the world and its growth through education and capacity-building initiatives



CONGRESS

The most important international conference for structural scientists



SUPPORT

Support for conferences, workshops, Visiting Professorships and more

Rapid publication of SARS-CoV-2/COVID-19





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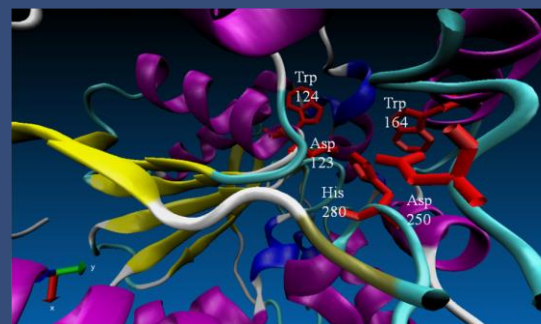
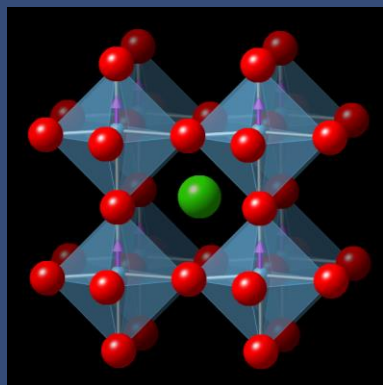
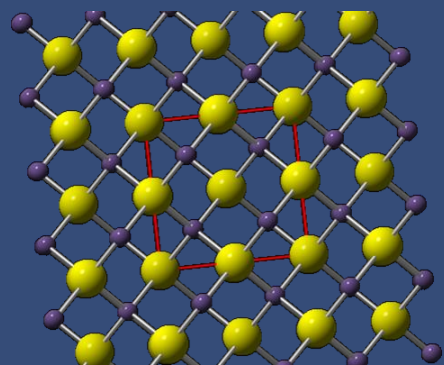
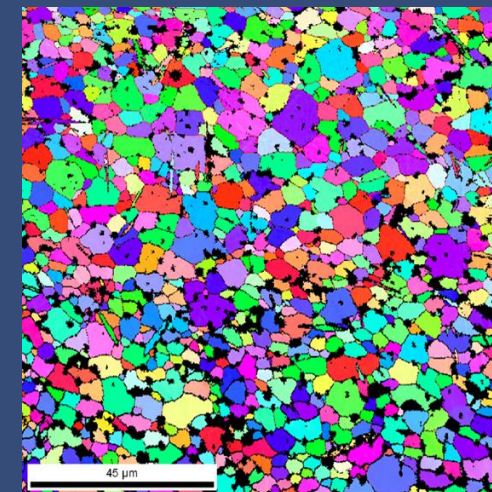
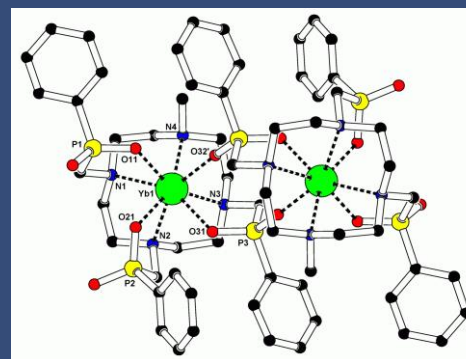
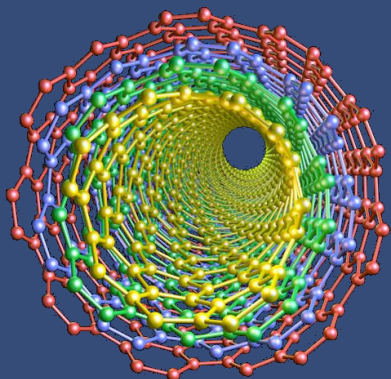
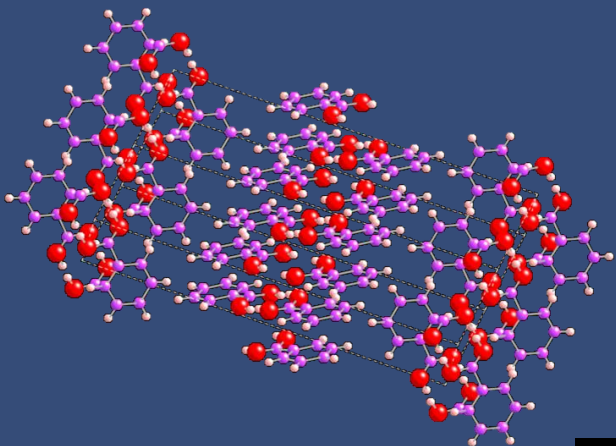
IUCrData

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Modern Crystallography

Structure of matter on atomic (10^{-10} m) ~ nanoscale range (10^{-6} m)

Chemistry – Biology – Physics – Materials Science



Pharmaceutical industry
Materials for energy storage
Magnetic materials
Art, archaeology
Mineralogy

Tools: X-ray, neutron, electron diffraction, electron microscopy

IUCr commissions

Aperiodic Crystals
Biological Macromolecules
Quantum Crystallography
Crystal Growth and Characterization of Materials
Crystallographic Computing
Crystallographic Teaching
Crystallography in Art and Cultural Heritage
Crystallography of Materials
Electron Crystallography
High Pressure
Inorganic and Mineral Structures
Magnetic Structures
Mathematical and Theoretical Crystallography
Neutron Scattering
NMR Crystallography and Related Methods
Powder Diffraction
Small-angle scattering
Structural Chemistry
Synchrotron and XFEL Radiation
XAFS
Data

Schools
Workshops
Conferences

**Preparation of the IUCr congress
programme**

Main Organizer

Czech and Slovak Crystallographic Association



www.xray.cz

Several attempts to get the congress to Prague since 2005

Invitation to Prague

2014

XXIII IUCr Congress



Osaka 2008



against Hyderabad



2011 Madrid

Invitation

to the 25th General Assembly and
Congress of the International Union of
Crystallography

2014 Montreal



2020

Prague



25

August 2020





Competition with Paris





About 82 % of votes of delegates

Meeting of the International Programme Committee and workshop – 2019

About

Deadline, fees, registration

Organization

Schedule

IUCr commissions

IPC of IUCr 2020

IUCr programme guidelines

Photos from CTFC

Texts in Materials Structure

Confirmed registrations

Accommodation

Czech Republic

Prague



May 14, 2019



Prague Congress Centre



Hotel Olsanka



DECTRIS
detecting the future

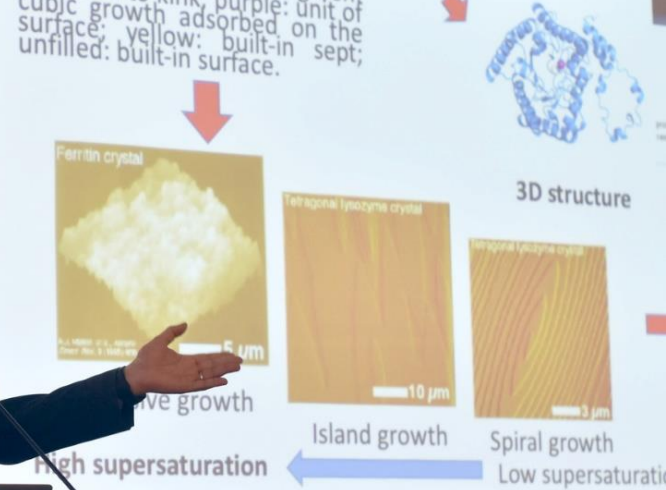


IPC meeting Prague, May 14, 2019





Mexico



- > In-situ and in-operando measurements
 - > Total Scattering; local disorder to amorphous. The emergence of sources
 - > Structure Solution
 - > Advantages and Disadvantages of Instrument Development.
- In situ translates literally "in place" and "operando" means "operating conditions". The experiment is carried out at conditions similar to the operating conditions of the system, and the readings are taken "in situ".



Australia

...ing and promoting all activities that are of interest to the crystallographic community and involve cultural heritage.

> Crystallography and symmetry in art
 Crystallographic analysis of artworks and ancient materials



www.iucr.org

Venezuela



China



Philippines



South Africa

Very efficient meeting



Approved programme scheme, invited speakers, co-chairs

3 plenary lectures – 45 min. + 5 min. discussion

35 keynote lectures – 3 in parallel

104 microsymbosia – 8 in parallel

9th parallel session – special sessions

10th parallel session – Software Fayre

Standard session

2 co-chairs

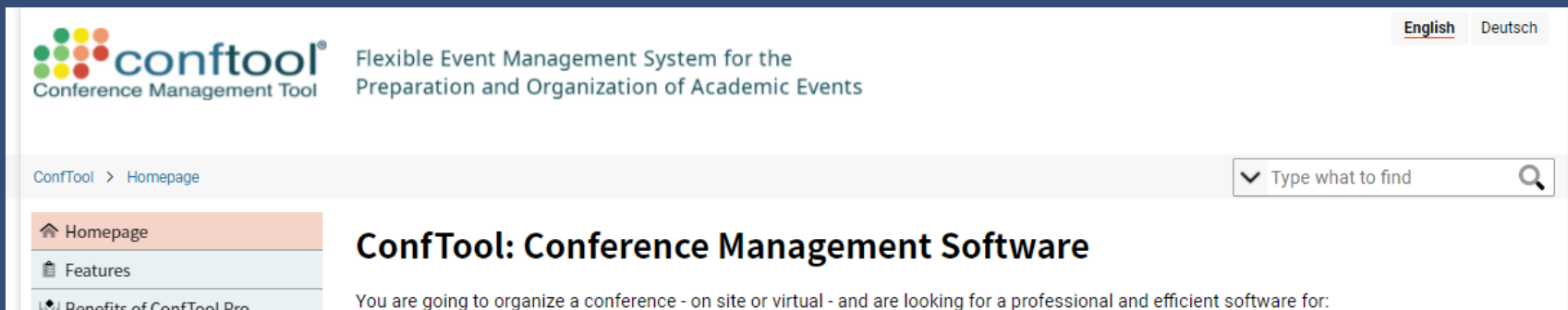
2 invited speakers – 25 min. + 5 min. discussion

4 contributed talks – 15 min. + 5 min. discussion

246 invited speakers

208 co-chairs

Registration system



XXV General Assembly and Congress of the International Union of Crystallography - IUCr 2021

August 14 - 22, 2021 | Prague, Czech Republic

Register New

Conference Time: 19th Oct 2021, 02:02:06pm CEST

ConfTool Conference Administration

Please log in to be able to **submit a contribution**, enter or view reviews or to register for **conference participation**.

If you have not yet created a user account, please do so now.

Account Login

First time here?

Create account and submit contribution

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IUCr 2021

25th Congress of the International Union of Crystallography
14-22 August 2021, Prague, Czech Republic



www.iucr25.org



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Platinum



Gold



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Bronze



Sponsors

February 2020

Registration open

All plenary, keynote lectures
and co-chairs confirmed

Most of invited speakers in sessions

| | |
|-----------------------------------|---|
| Club H | Session Chair: Luc van Meervelt Session Chair: Alex Ashcroft IUCr assembly 2 |
| Date: Tuesday, 17/Aug/2021 | |
| 9:00am - 9:50am | KN-13: Structural flexibility and disorder in functional materials ⊕ Location: Terrace 2A Session Chair: Brendan Kennedy Andrew Goodwin |
| Terrace 2A | |
| 9:00am - 9:50am | KN-14: Quantum crystallography and spintronic materials ⊕ Location: Terrace 2B Session Chair: Krzysztof Wozniak Piero Macchi |
| Terrace 2B | |
| 9:00am - 9:50am | KN-15: Time resolved macromolecular crystallography ⊕ Location: Club A Session Chair: Ivana Kuta Smatanova Arwen R Pearson |
| Club A | |
| 9:50am - 10:20am | Morning break 3: Exhibition, posters, coffee/tea ⊕ Location: Exhibition and poster area |
| Exhibition and poster area | |
| 10:20am - 12:45pm | MS-33: CryoEM for macromolecules - from single particles to microcrystals ⊕ ⊕ Location: Club A Session Chair: Jan Pieter Abrahams Session Chair: Jiri Novacek Invited: Nenad Ban (Switzerland), Dimple Karia (Netherlands) |
| Club A | |
| 10:20am - 12:45pm | MS-34a: Structural biology of enzymes, mechanism and regulation ⊕ ⊕ Location: Club B Session Chair: Mirjam Czjzek Invited: Liang Wu (UK), Orsolya Barabas (Germany) |
| Club B | |
| 10:20am - 12:45pm | MS-35: Polymorphism and structural transformation of organic crystals from synthesis to characterization ⊕ ⊕ Location: Club D Session Chair: Kenneth D. M. Harris Session Chair: Doris E. Braun Invited: David Bryce (Canada), Franziska Emmerling (Germany) |
| Club D | |
| 10:20am - 12:45pm | MS-36: Generalizations of crystallographic groups and their applications ⊕ ⊕ Location: 221-2 Session Chair: Gregory L McColm Session Chair: Eden Delight Miro Invited: Pavel Kalouguine (France), Martin Cramer Pedersen (Denmark) |
| 221-2 | |
| 10:20am - 12:45pm | MS-37: Total scattering ⊕ ⊕ Location: Terrace 2A Session Chair: Pierre Bordet Session Chair: Emil Bozin Invited: Stephan Rosenkranz (USA), Bo Brummerstedt Iversen (Denmark) |
| Terrace 2A | |
| 10:20am - 12:45pm | MS-38: Structural, electronic and magnetic ordering: From fundamental physics to functionality ⊕ ⊕ Location: Club C Session Chair: Javier Sanchez-Benitez |

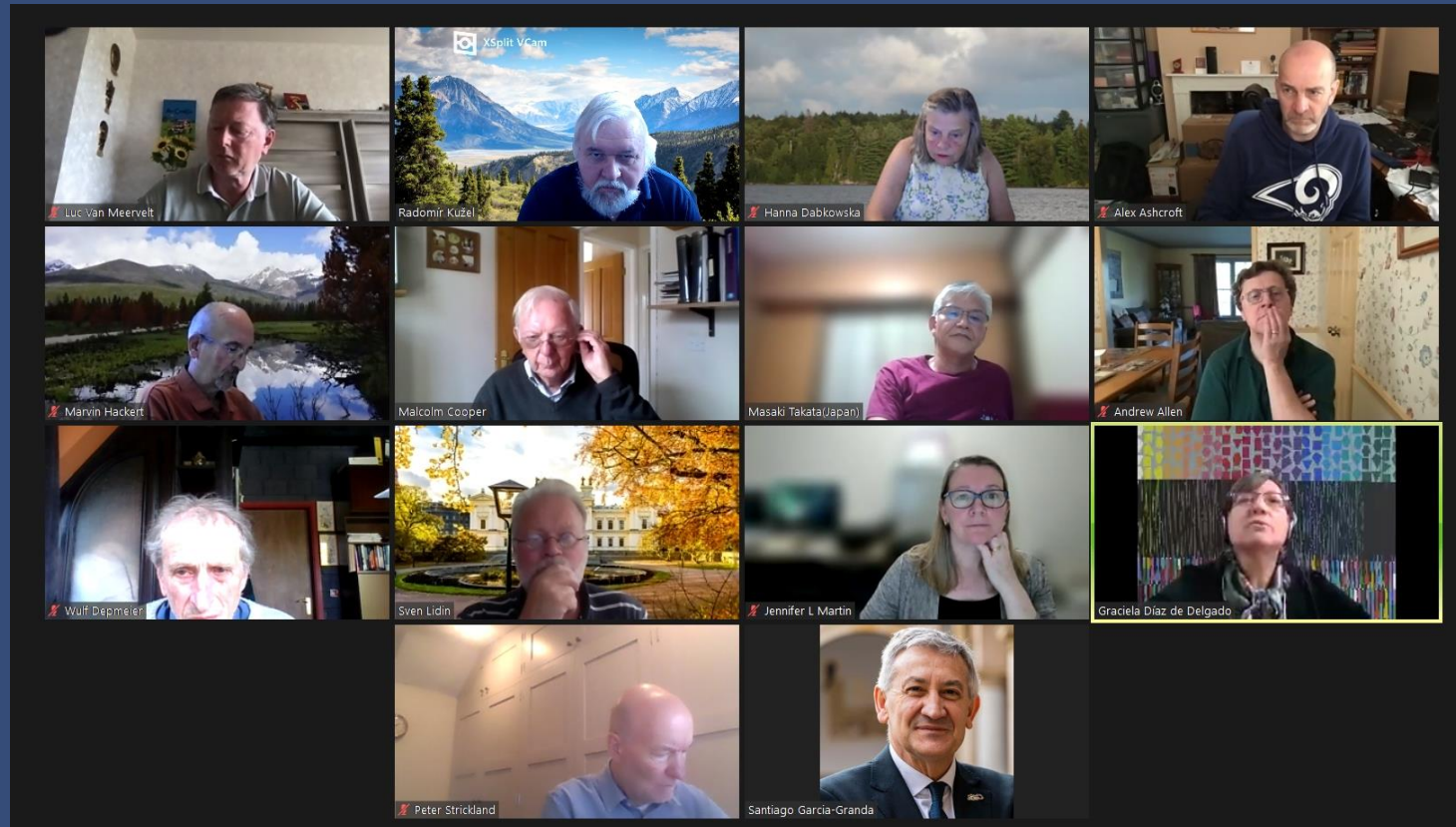
March 2020



CORONAVIRUS (COVID-19)

March 2020

First IUCr EC Zoom meeting → Decision to postpone the congress to 2021



The programme was fixed and nothing more was done in 2020

January 2021

Further change of the time of the congress impossible

The congress cannot be cancelled

Probably the congress will have to be organized as online only

February 2021







Demonstration of the hybrid presentation system gCon developed by T.R.I.



www.tri.cz

Completely independent
on the location of chairs, speakers

Many possibilities,
virtual exhibition booths

| | | | |
|---|--|---|--|
|  | <p>Josef Blecha ✉ blecha@tri.cz ☎ 777 101 413</p> <p>vedení firmy komunikace s klienty organizace akcí</p> |  | <p>Pavel Matějka ✉ matejka@tri.cz ☎ 777 101 613</p> <p>operační systémy počítačové sítě grafika</p> |
|  | <p>Aleš Basík ✉ basik@tri.cz ☎ 775 101 413</p> <p>vedení projektů marketing 3D grafika</p> |  | <p>Tomáš Bělina ✉ belina@tri.cz ☎ 777 101 370</p> <p>programování mobilní aplikace technický dozor na akcích</p> |
|  | <p>David Veselý ✉ vesely@tri.cz ☎ 774 066 677</p> <p>programování mobilní aplikace technický dozor na akcích</p> |  | <p>Jakub Hlaváček ✉ hlavacek@tri.cz ☎ 724 589 860</p> <p>technický dozor na akcích Powerpoint specialista testování software</p> |

February-March 2021

We could go for hybrid form but the decision cannot be made earlier than in about June

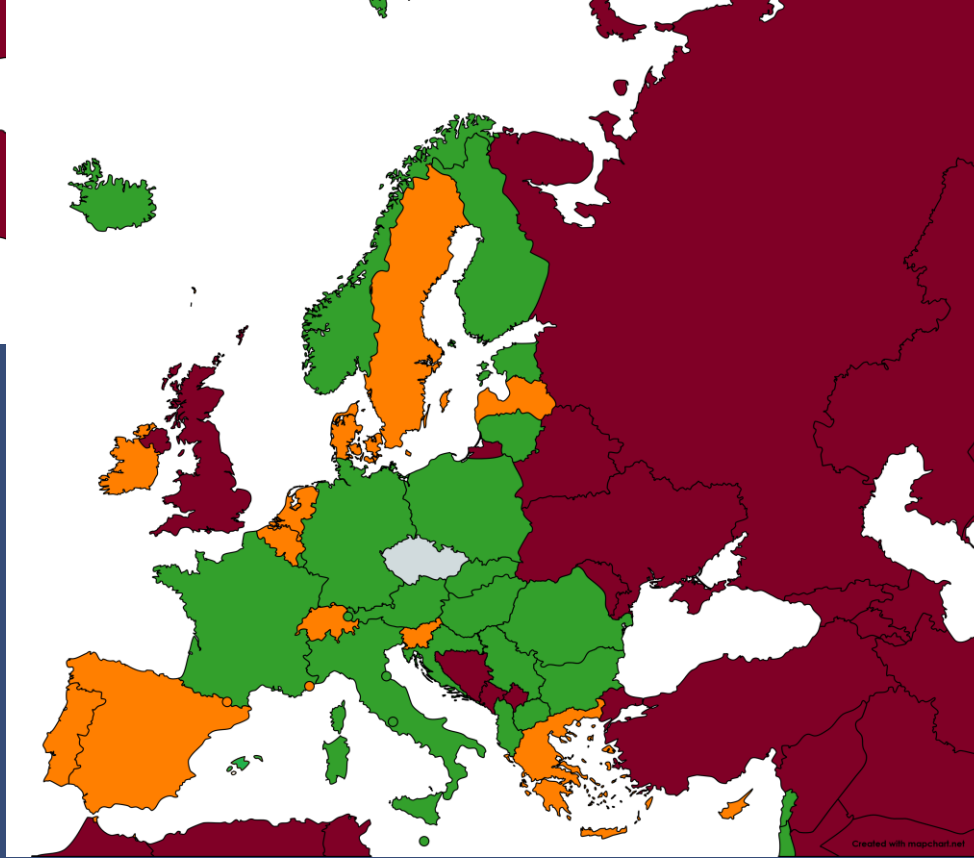
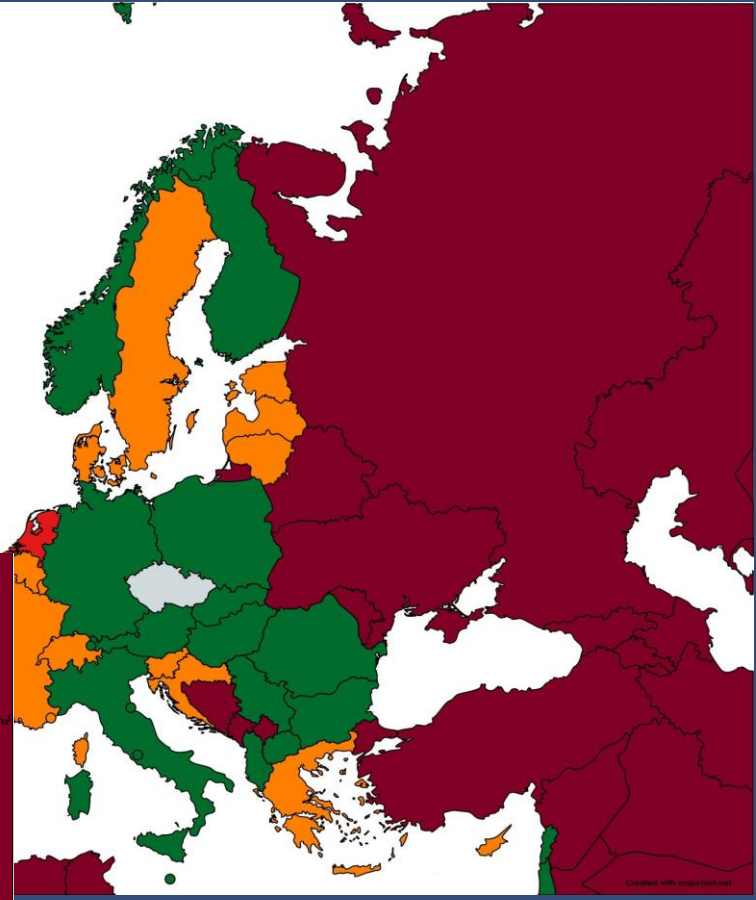
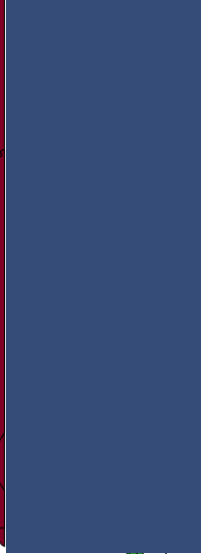
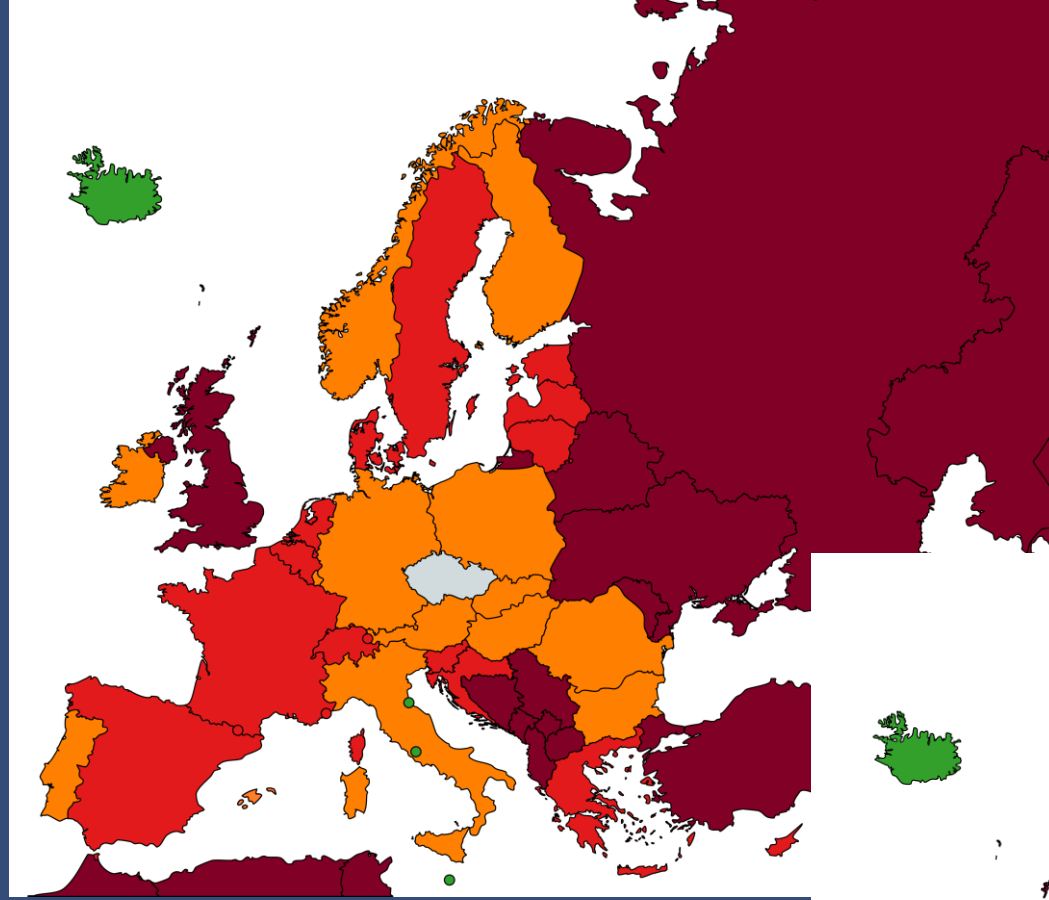
Communication with all invited speakers, co-chairs – nearly 500 people

Can you confirm your participation online or real, if possible?

Obligatory options in pre-registration form (possible to change in time)

- Real participation, if possible, if not, virtual 40 %
- Real participation preferred but not much probable 25 %
- Virtual participation only 20 %
- Real participation only 5 %
- Cancel participation, no participation 5 %

Virtual registration open with a possibility of later upgrade to real one



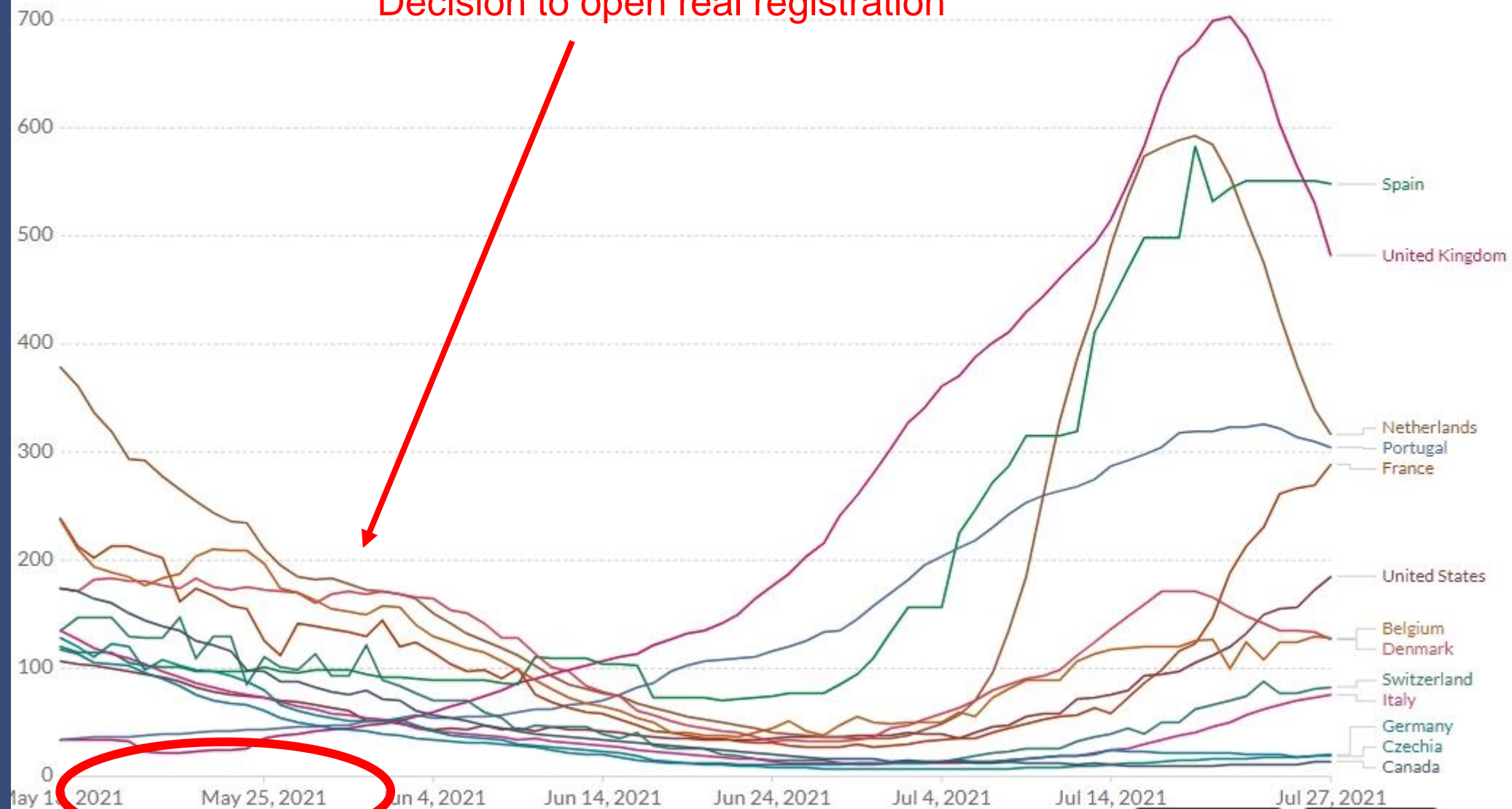
Changing
Covid-19 maps

Daily new confirmed COVID-19 cases per million people

Shown is the rolling 7-day average. The number of confirmed cases is lower than the number of actual cases; the main reason for that is limited testing.

LINEAR LOG

Decision to open real registration



Source: Johns Hopkins University, CSSE COVID-19 Data

May 13, 2021

Jul 27, 2021

CC BY

Jan 28, 2020

Jul 27, 2021

May-June-July 2021

Abstract selection – programme finalization

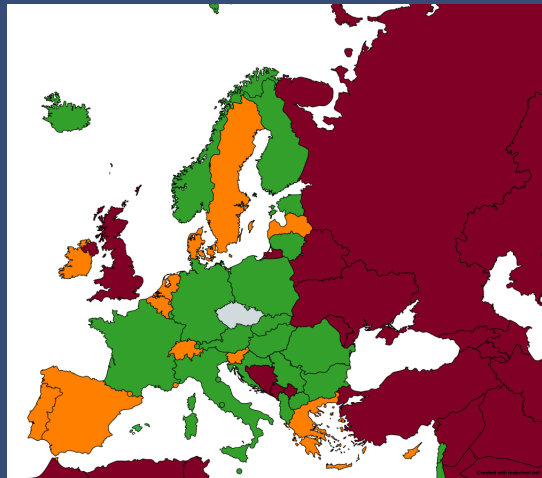
Continuous extension of deadline for abstracts
since April to end of June

Exhibition, Rooms - plan completely rebuild



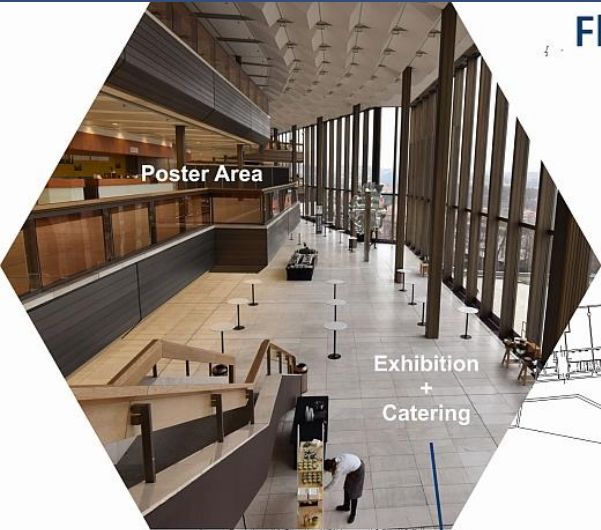
Flexibility of PCC necessary

Restrictions on travelling



Country regulations

Institutional regulations



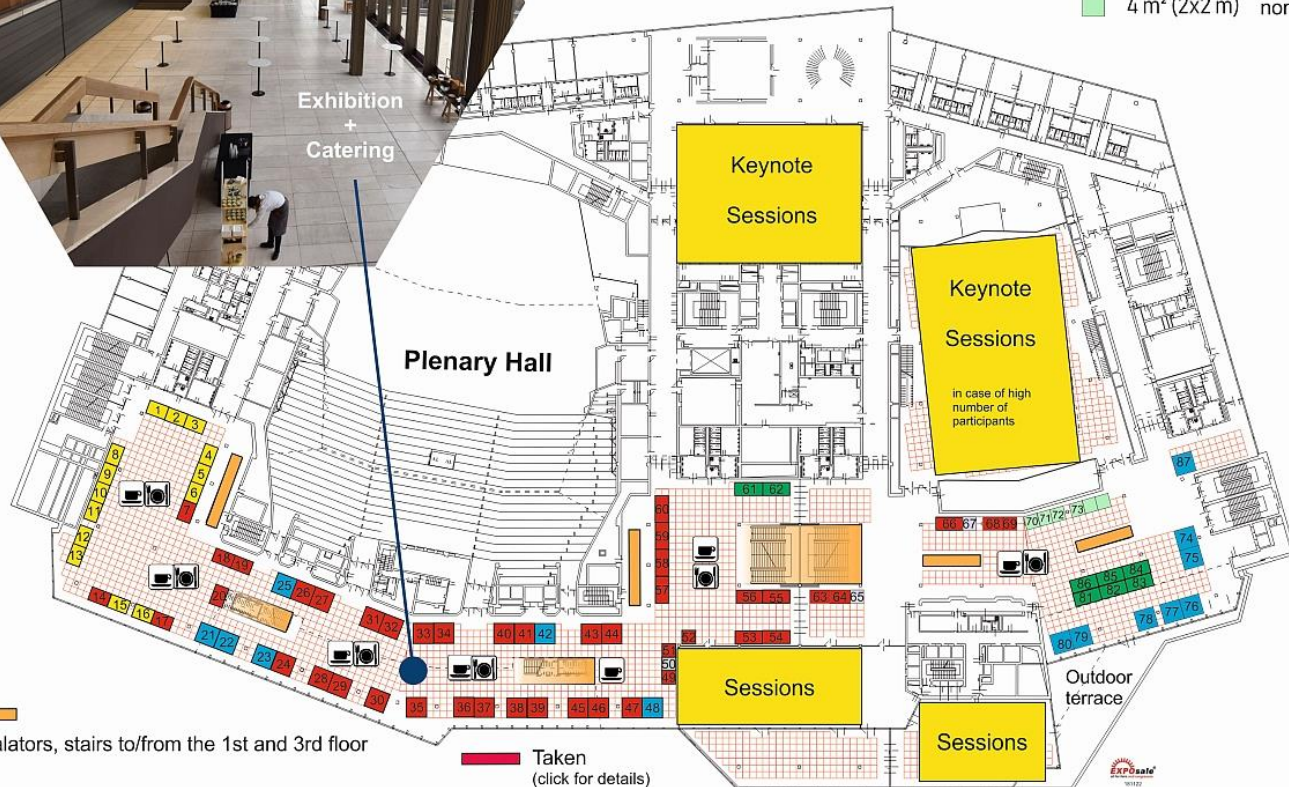
Floor Plan + Exhibition Site

2nd floor

Lectures - 1st and 2nd floors

Posters - 3rd floor

- 4 m² (2x2 m)
- 6 m² (3x2 m)
- 8 m² (4x2 m)
- 9 m² (3x3 m)
- 4 m² (2x2 m) non-commercial



Original plan

Exhibition

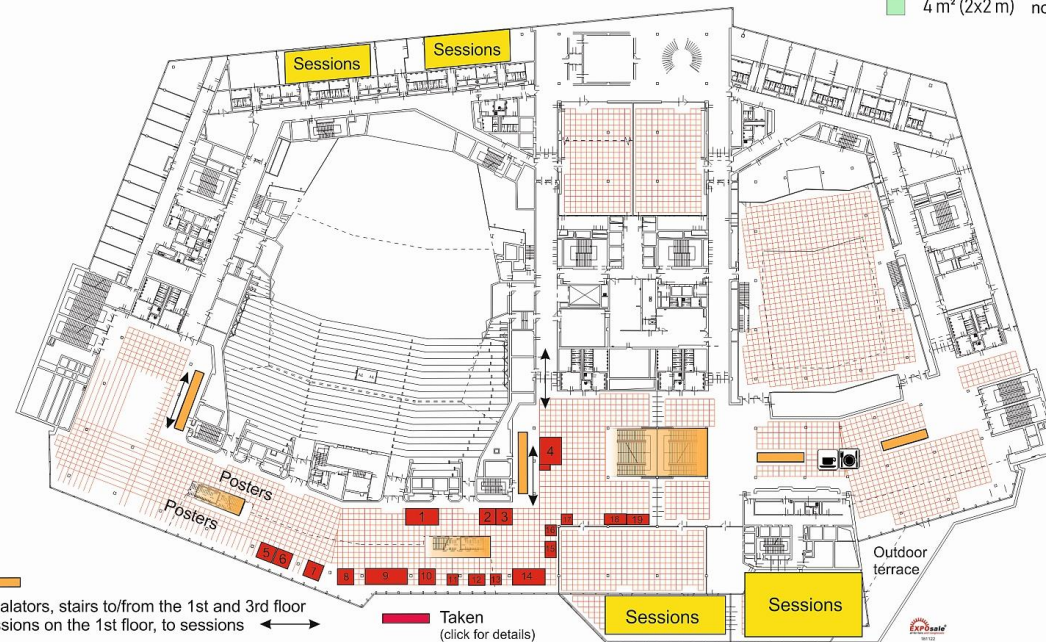
Floor Plan + Exhibition Site

2nd floor

Lectures - 1st and 2nd floors

Relaxation area - 3rd floor

- 4 m² (2x2 m)
- 6 m² (3x2 m)
- 8 m² (4x2 m)
- 9 m² (3x3 m)
- 4 m² (2x2 m) non-commercial



gCon - Hybrid presentation system

iucr.gcon.me/programme



🕒 0:52:37 CEST

🔔 🔊 👤 Radomír Kužel ▾

IUCr 2021

25th Congress of the International Union of Crystallography, 14-22 August 2021, Prague, Czech Republic

HOME

PROGRAMME/RECORDS ▾

POSTERS

EXHIBITION

VIRTUAL FOYER

🔍 Search

Select day: 15.08.2021 - Sunday ▾

Select hall: All halls ▾

🏷️ Tags filter ▾

🕒 09:00 - 09:50 📍 Club A

1

📄 Stress state in a diamond anvil cell at megabar pressures at ambient and high temperatures

Chairs: 📄 Arthur Haozhe Liu

Tags: ALL



🕒 09:00 - 09:50 📍 Terrace 2A

1

📄 Quantum Crystallography: Past, Present, and Future

Chairs: 📄 Krzysztof Wozniak

Tags: PLKN



IUCr 2021

25th Congress of the International Union of Crystallography, 14-22 August 2021,
Prague, Czech Republic

HOME EVENT LIVE PROGRAMME ▾ POSTERS EXHIBITION **MY PRESENTATION UPLOAD** SPEAKERS PREVIEW ROOM
MY REMOTE PARTICIPATION

Clear and intuitive instructions

Participants asked for upload of presentations in a week before the congress

Checked for technical suitability
All presentations run from the local server but controlled by speakers

HOME EVENT LIVE PROGRAMME ▾ POSTERS EXHIBITION MY PRESENTATION UPLOAD **SPEAKERS PREVIEW ROOM**
MY REMOTE PARTICIPATION

1

2

3

4

5

Technical requirements for speakers and chairs

For a smooth running congress and a simple connection, we recommend implementing the following requirements.

- **internet connection:** at least 10Mbps upload and 10Mbps download
- **internet browser:** the latest version of browser Google Chrome, Microsoft Edge, Vivaldi or Apple Safari
- **network:** allowed UDP port 9000 for IP address 46.234.106.96
- **sound and video:** we recommend headphones with a microphone and a quality webcam
- **tip for you:** make sure nothing disturbs you during your presentation
- **tip for you:** check the camera position and choose a room with proper lighting.

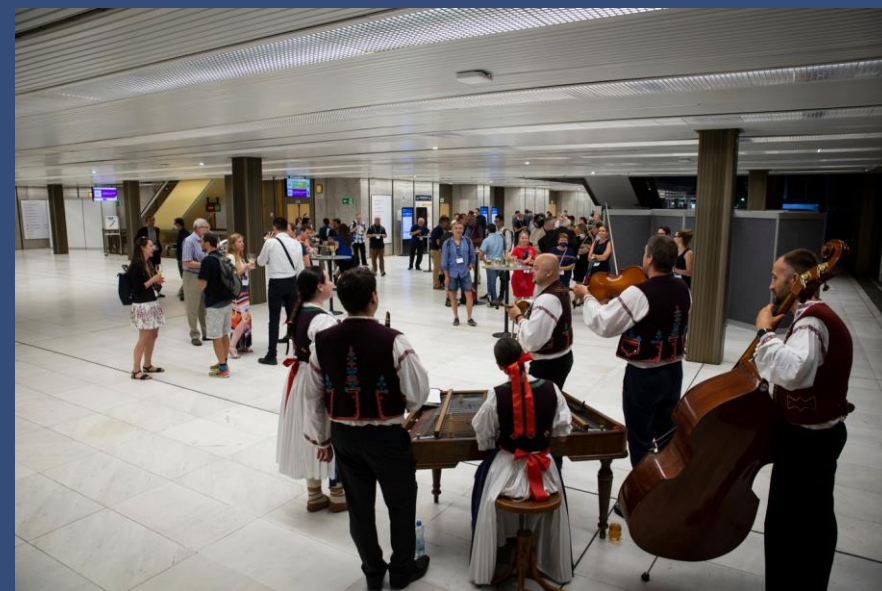
HOME EVENT LIVE PROGRAMME ▾ POSTERS EXHIBITION MY PRESENTATION UPLOAD SPEAKERS PREVIEW ROOM
MY REMOTE PARTICIPATION

Your browser is supported. Everything should work fine. ✕

The following table lists all the session you participate in remotely. You are either the chair of the session or the speaker at the presentation. The "Enter session" button will not be active (green) until the session starts. After entering the session, you will find:

- **Chair:** Your microphone will automatically turn on and you will see a picture from the hall and hear what is happening in the hall. Remember that your microphone is turned on as soon as you enter the session.
- **Speaker:** You will see a picture from the hall and hear what is happening in the hall. Your microphone will be muted when you enter the session. You will watch the program in the hall and wait for your presentation to take place. Your presentation will be started by a technician when prompted by the chair. The first slide of this slide show appears automatically, and your microphone turns on. Below the presentation window will be the controls for moving the slides. When you finish your presentation, you'll still be in the session and your microphone will be muted automatically.

You can turn your microphone and webcam on and off while you're in the session. You can leave the session yourself by pressing the "Leave session" button, or you will leave the session automatically when it is finished.





Lukáš Palatinus

Hydrogens

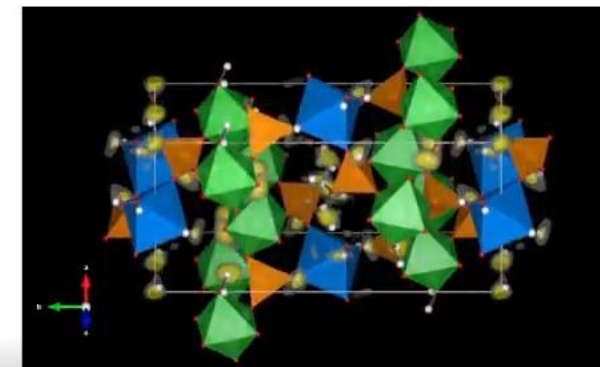
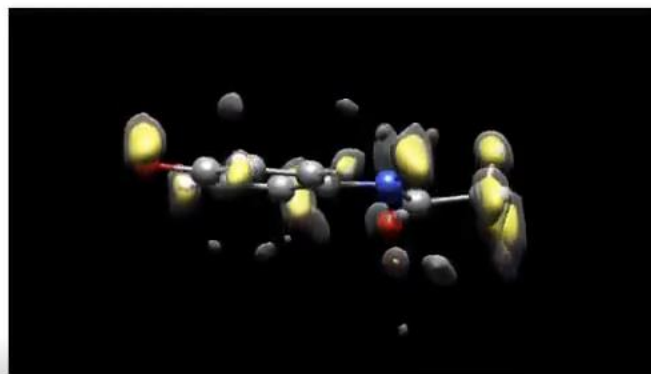
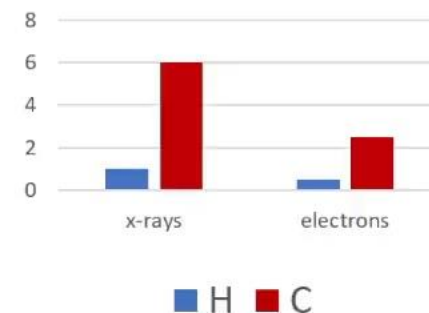
Hydrogens scatter relatively more in electrons than in x-rays.

Despite of that for a long time difficult to see.

Scattered mentions in literature before 2017 (Vainshtein et al., Palatinus et al., Rodriguez et al.)

The possibility demonstrated and analyzed in detail in 2017 by Palatinus et al. (2017)

Now almost routine, although not always guaranteed,



Vainshtein et al. in Electron Diffraction Techniques, vol. 1, J. M. Cowley, Ed. (1992); Palatinus et al. (2015), Acta Cryst. B; Rodriguez et al. (2015), Nature 525; Palatinus et al. (2017), Science 355



Remote speaker, local audience

25th Congress of the International Union of Crystallography



Remote speaker, chair, local questions

25th Congress of the International Union of Crystallography



Remote speaker, chairs, local audience

25th Congress of the International Union of Crystallography



Remote speaker, local chairs

25th Congress of the International Union of Crystallography

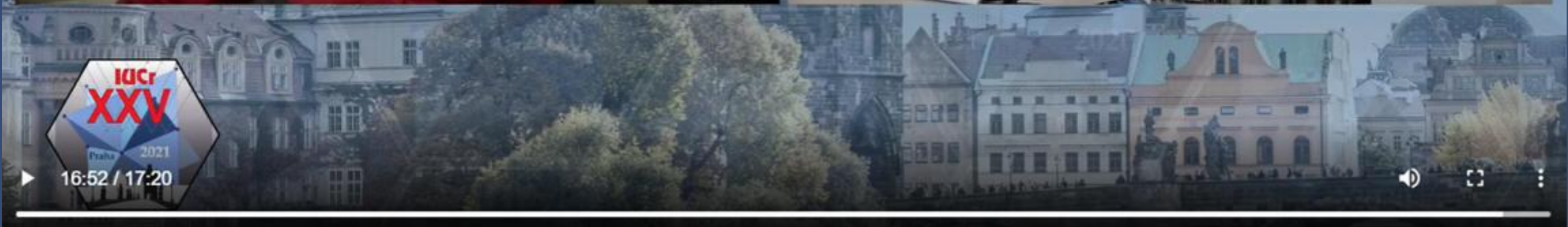


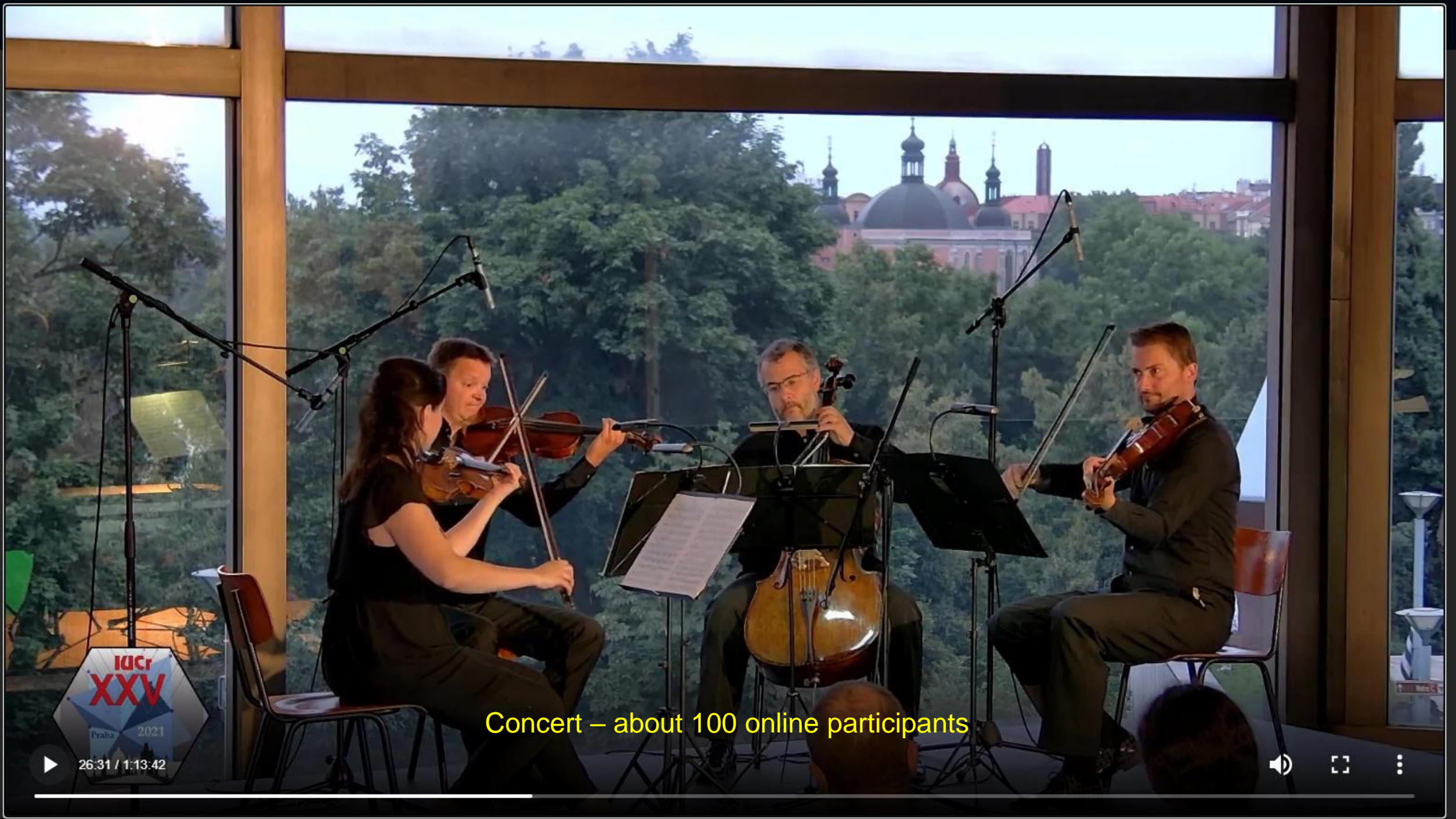
Remote chair, local chair, speaker was local

25th Congress of the International Union of Crystallography



Nikoletta B. Sathori





Concert – about 100 online participants

▶ 26:31 / 1:13:42



The Electric Field of ATP-Synthase

Quantum crystallography in materials science

17.08.2021 10:55

Terrace 2B

Tags: PHYS

Speakers:

Chérif F. Matta

Rating: ★★★★★

- Info
- Videorecord
- Documents
- Video
- Discussions
- Questions 2

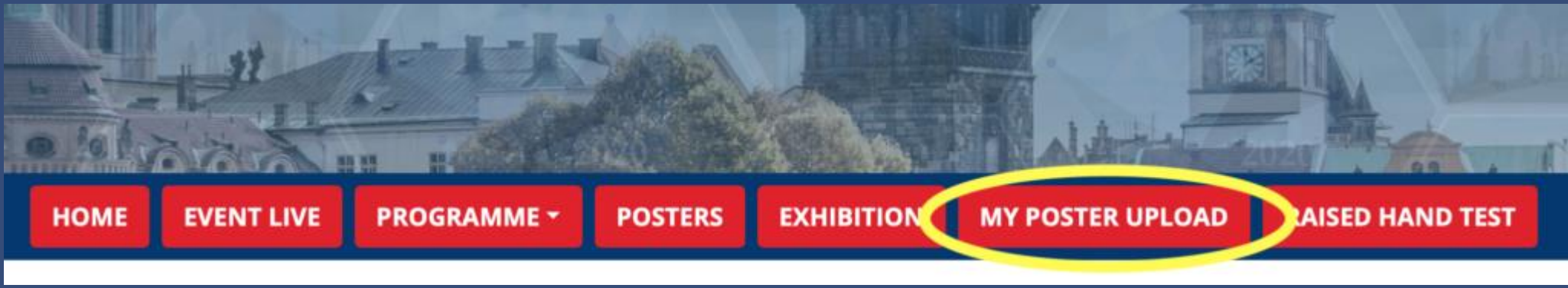


The Electric Field of ATP-Synthase

Close

Available for watching

Available for download



Poster files

This is where you upload your poster file. You can only upload one file. The maximum file size is 200 MB. If you have multiple files, such as a video recording and a PDF file, upload the files packaged in a zip archive. We must review the uploaded file to see if it meets the technical requirements and then approve it. An already approved poster cannot be uploaded again! Once approved, the poster will be accessible on the website for other registered participants.

 **Unuploaded**

 **Upload poster**

Documents for poster

Here you can upload additional files for the poster. These files are not approved and once uploaded are immediately accessible on the website for other registered participants.

 **Upload documents**

📄 Cryo-EM

🕒 17.08.2021 - Tuesday 17:10 - 17:40 📍 Poster area



📄 Pharmaceutical materials

🕒 17.08.2021 - Tuesday 17:10 - 17:40 📍 Poster area

14



📄 Polymorphism

🕒 17.08.2021 - Tuesday 17:10 - 17:40 📍 Poster area

10



📄 Quantum crystallography

📄 Crystallographic and Computational Electron Density of dx²-y² Orbitals of Azo-Schiff Base Metal Complexes...



ROOM

Authors: 📄 Yuji Takiguchi

📄 Experimental and theoretical charge density study of two tetranuclear transition metal clusters with single...



ROOM

Authors: 📄 Sofie Stampe Leiszner

📄 Charge density distribution of API in crystals and ligand-receptor complexes



ROOM

Authors: 📄 Alexander A. Korlyukov

📄 Computational analysis of intermolecular interactions in a crystal with structural phase transitions



DOC

ROOM

Authors: 📄 Daisuke Takagi

📄 EVIDENCE OF STRONG HYDROGEN BONDING IN CRYSTAL STRUCTURES OF TRANSITION METAL COMPLEXES



ROOM

Authors: 📄 Danijela S. Kretić

Virtual Rooms

For 25 people



Three-Dimensional topological analysis of the experimental and theoretical electron density of a 5-Fluorocytosine/Isoniazid cocrystal

Quantum crystallography

17.08.2021 - Tuesday

17:10 - 17:40

Authors:

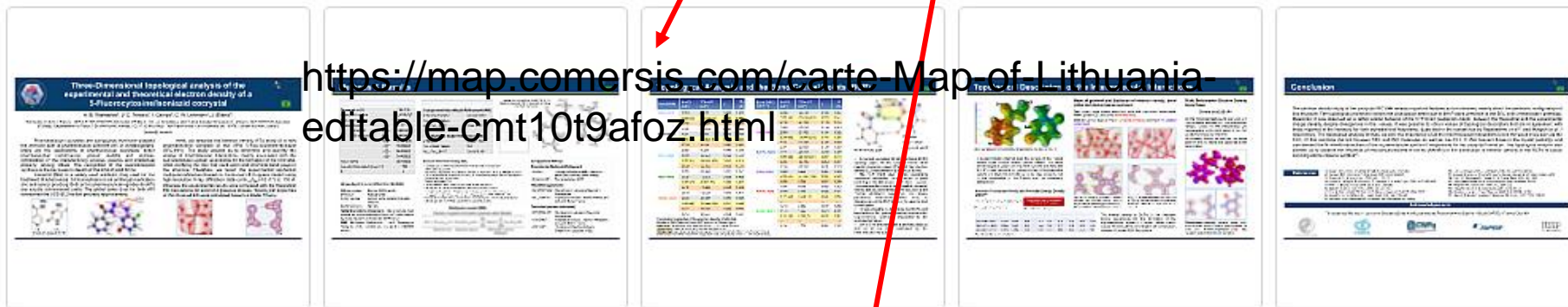
Javier Ellena

Rating:

Multiple pages, videos possible

Documents available for download

<https://map.comersis.com/carte-Map-of-Lithuania-editable-cmt10t9afoz.html>



Info

Documents

Discussions

Virtual rooms



Close

Exhibition



Platinum

Rigaku Corporation



2D

Virtual exhibition

Gold

Anton Paar GmbH



2D

Bruker / Incoatec



2D

ELDICO Scientific

Malvern Panalytical



EXIT



EXIT



EXIT





Dear Radek

*Well now! The organization of the Congress was fantastic and everything including the remote presentations and interactions were perfect. I congratulate you and your team in achieving the seemingly impossible. **This Congress will surely go down in everyone's memory as a very special success.** I am lost in admiration for what you have been able to do.*

Kind regards Mike

Dear Radek, Pavlina, Ivana, and all Czech Friends,

*What you have done with the 2020/21 IUCr Congress organization is beyond description. I am writing to express my highest appreciation and congratulations to you and your teams: you have overcome the impossible and organized an amazingly successful IUCr Congress. **The organization was flawless but also the scientific content was magnificent. From my point of view (a very active on-line participant) everything worked perfectly; and the quality of the virtual environment was breathtaking.** A quantum leap in the mastery of IUCr congress organization. With my all best wishes, Mariusz*

Dear Radek, Ivana, Pavlina, and Martin,

*Congratulations on successfully hosting such a wonderful congress. None could have managed the COVID situation better than you did. The content was top quality, and the opportunities to connect with colleagues were many. I spent the whole morning today working through continuing research-related email conversations started during the congress. I'll still look forward to watching recordings of some presentations that I missed. **Your hybrid meeting platform will be a benchmark for future congresses.** Thank you for so many years of effort to strengthen the union and to make Prague 2020 a great experience.*

Branton

Dear Radek,

*I would like to thank you and all the organizers for an unforgettable congress. Every IUCr congress stays in my mind as an inspiring and engaging experience from a scientific point of view. **This time I would say that, looking at you and at your team, I learned from your example how it is possible to face unpredictable events and challenge them by exploring new paths without losing your smile and kindness.** As a chair of a session I would like to acknowledge your support in all the phases of the difficult task of assembling the program and the support of the technical team during the session. This IUCr congress was a remarkable event for me as a scientist and more important as a human being. I enjoyed every moment!*

Grazie di cuore.

Consiglia

Dear Radek,

*Please allow me to hearty congratulate you and also your team for the organization of the wonderful IUCr Congress. You did an excellent job and organized a great conference. As an on-line attendee I could fully enjoy the meeting. **It is a huge advantage that the lectures will be available on-line for three more months.** As you said in your closing remark, it is the start of a new era. I believe that the in person meetings are very important but from now on hybrid conferences and archiving the conference events are recognized and will be followed. **I both liked the lecturer and the chair functions of the gcon platform. The poster session was the best I have ever experienced.***

All best wishes, Petra

Comprehensive statistics

List of participants available for each individual item

<https://iucr25.org/hybrid-conference-statistics/>

| Count of views of each sessions | | | | | |
|---------------------------------|---------------|--|-------|---|-------|
| All halls | | | | | |
| 15.08.2021 | | | | | |
| Date | Time | Session | Count | Presentation | Count |
| 15.08.2021 | 10:20 - 12:45 | Validation of cryoEM structures and maps | 145 | Protein hydrogen bond parameters as a new validation tool | 87 |
| | | | | Integrative modeling to characterize structure and dynamics of biomolecules | 81 |
| | | | | Community recommendations on validating cryo-EM models and data | 65 |
| | | | | Cryo-EM Validation Metrics in EMDA | 46 |
| | | | | FSC-Q: A method for quality analysis of cryoEM-derived models | 39 |
| | | | | Outcomes from EMDataResource model challenges | 44 |
| | | | | Quantifying resolvability of atomic features in cryo-EM maps using Q-scores | 52 |
| 15.08.2021 | 10:20 - 12:45 | Structural bioinformatics | 104 | Introduction to the session | 31 |
| | | | | RNA-Puzzles - the evaluation and automation of RNA 3D structure prediction | 46 |
| | | | | A nucleic acid structural alphabet and conformational analyses at dnatco.datmos.org | 40 |
| | | | | Applications of residue contact predictions in structural biology. | 40 |
| | | | | Pepsi-SAXS/SANS - small-angle scattering-guided tools for integrative structural bioinformatics | 41 |
| | | | | Refactoring the B-factor: intuitively extracting structural dynamics from macromolecular disorder | 48 |

| | |
|----------------------------------|----------------------|
| Transferred data in stream | 11.8 TB (most to UK) |
| Total size of uploaded files | 33 GB |
| Total number of slides | 18 042 |
| Viewed hours in stream | 15 318 hrs |
| Working hours of technicians | 1 400 hrs |
| Total number of lecture views | 12 325 |
| Total number of poster views | 35 054 |
| Virtual exhibition stands | |
| Total number of views | 5 156 |
| Total number of chats | 1 033 |

Most popular keynote lectures

| <i>Title</i> | <i>Speaker</i> | <i>Views</i> |
|--|-------------------------|--------------|
| Quantum crystallography: past, present, and future | Dylan Jayatilaka | 211 |
| Electron crystallography of molecular crystal | Lukáš Palatinus | 194 |
| Structural flexibility and disorder in functional materials | Andrew Goodwin | 185 |
| Fourth-generation Synchrotron radiation and XFEL facilities: new era in crystallography and material science | Aleksandr Blagov | 167 |
| Electron density, and its interplay with the energy and properties of molecules and solids | Julia Contreras-Garcia | 166 |
| Time-resolved macromolecular crystallography: no longer a niche pursuit? | Arwen R Pearson | 159 |
| High pressure crystallography unlimited | Leonid Dubrovinsky | 150 |
| MicroED: conception, practice and future opportunities | Tamir Gonen | 147 |
| The crystal and the rose: On the impact of crystals and crystallography on arts and mind | Juan Manuel Garcia-Ruiz | 134 |
| Crystal engineering of adaptive smart materials: from mechanical bending to self-healing | Malla Reddy | 134 |

Sessions

| <i>Title</i> | <i>Views</i> |
|--|--------------|
| Automation in bio-crystallography: tools, perspectives and applications | 193 |
| Crystal structures of pharmaceutical and organic compounds from electron diffraction | 185 |
| Structural biology against coronavirus/covid-1 | 183 |
| Machine learning in biological and structural sciences | 178 |
| Total scattering | 168 |
| Protein design and engineering | 163 |
| Recent advances in electron crystallography techniques | 161 |
| Combination of X-rays and electrons for structure characterization | 157 |
| Dynamic frameworks | 152 |
| CryoEM for macromolecules – from single particles to microcrystals | 151 |

Most visited posters

| <i>Poster session</i> | <i>Title</i> | <i>Presenting author</i> | <i>Views (unique)</i> |
|----------------------------------|--|-------------------------------------|-----------------------|
| Structural bioinformatics | The rotag library: generating protein structure-specific side-chain rotamer libraries <i>note: This poster is the first poster of the first session</i> | Algirdas Gribauskas | 149 |
| Drug design | Structure determination of the motor domain of centromere associated protein E | Asuka Shibuya | 102 |
| Crystal structure prediction | Predicting the packing behaviour of porous organic cages | Emma Helen Wolpert | 95 |
| Powder diffraction | Structure determination of soft crystal polymorphs by using prediction technique with powder X-ray diffraction data | Shigeaki Obata | 93 |
| Crystallographic data | Chemical annotation in the Crystallography Open Database | Andrius Merkys | 91 |
| Perovskites | Effect of Bi non-stoichiometry on the crystallographic structure of Na _{1/2} Bi _{1/2} TiO ₃ | Ahmed Gadelmawla | 86 |
| Metal-organic frameworks | Kinetic and thermodynamic control in assembly of rare-earth cyamelurates | Albina Isbjakova | 86 |
| Structural bioinformatics | On the role of CO...CO interactions in the classification of beta-turns. | Consiglia Tedesco | 84 |
| Automation in biocrystallography | Faster turnaround of macromolecular crystallography research | Julius Hallstedt | 81 |
| Drug design | Fragment Based Drug Discovery of SARS-CoV-2 Main Protease | Weixiao Song | 81 |

25th Assembly and Congress of the International Union of Crystallography (IUCr)

Hybrid congress in the time of pandemic, August 2021

Statistic information

Real participants

Regular 316
Students 157
Exhibitors 50
Sum **523**

Virtual participants

Regular 765
Students 165
Exhibitors 9

Sum **939**

STREAM participants

15.8. 762
16.8. 924
17.8. 824
18.8. 801
19.8. 804
20.8. 699
21.8. 516

September- October active participation

~ 600 people

All IUCr25 participants **1638**

Credits

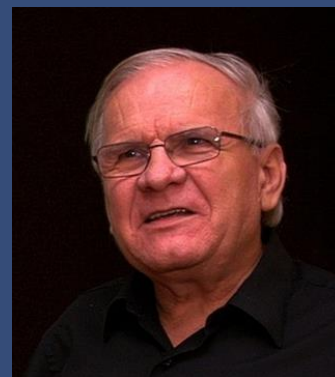


IPC chair
Ivana Kutá Smatanová

Faculty of Science,
University of South Bohemia
České Budějovice

Milan Dopita

Faculty of Mathematics and Physics
Charles University
Praha



Jindřich Hašek

BIOCEV, CSCA president

LOC chair
Pavlína Řezáčová

Institute of Organic Chemistry
and Biochemistry
Czech Academy of Science, Praha



Martin Haloun



Auletris



PRAGUE
CONGRESS CENTRE



IT rental solutions

Z

zátiší catering

C

**SWOT
Analysis**



Strength



Weakness



Opportunity



Threat



Strengths

Being able to meet globally at all
 more participation
 more people can be part of the discussion
More participants
 Larger audiences
Flexibility Options
 choice Inclusiveness
 Connectivity
creativity choice for participants
 Flexibility
Back-up plan
 Low budget for attendees online

Weaknesses

Technology not there yet
 Technical issues
 Unknown
 workload
personal contact
Risks Costs less engagement
Time zone issues
Lack of networking
 lack of experience
 Too many options
Budget

DAY 1

Opportunities

Pax by low income countries
 more sustainable events
Easier content accessibility
New audiences Wider audience
Sustainability
More participants
 Sustainable travel
 online participation
 Reaching those who can't travel

Threats

Losing personal connection
 In need of creativity
Lower participation
 Not techsavvy
No shows Technical issues
Revenue decline
Unequal engagement Tech fail
 technologie dependency member engagement
 Nee businesscase decrease of event sizes

Strengths

Choice for delegates
 innovation
 sustainability **Inclusivity** connection
Sustainability
 Technic, inclusion **Flexibility** Audience reach
 Your audience reach is bigger

Weaknesses

need more human resources
 Not meeting everyone
 Audience focus **Demanding technology**
 timezones int'l audience
Networking
 technology
 Poorer development **Costs**
 Not attractive for sponsors
Connection

DAY 2

Opportunities

Leverage the data collected
 speakers who may not normally travel
Wider Reach New sponsors
 More participation possible New audiences
Flexibility Wider audience
 Wider exchange of information or knowledge
 New revenue streams

Threats

Delegates switch to virtual participation last minute
 less overnights in destination
 negative Influence in Tourism industry
 Private life **Data security**
 Lack of technology
 Technology Gap **Tech fail** No shows
Lack of skills
 Virtual participants not engaged
 Technology gap and exclusion