

# 10<sup>th</sup> meeting of the Young Crystal Growers (jDGKK)



# Welcome Note

#### Dear participants of our 10<sup>th</sup> jDGKK annual meeting,

we are highly pleased to welcome you to our young crystal growers seminar in Berlin!

2021 is a special year, since we celebrate our **10th seminar anniversary** and for most of us this might be the first scientific meeting with collegues of other institutes / companies since the rise of the COVID-19 pandemic.

You will enjoy a diversified program consisting of Academic Talks, Industry Talks, Patent Agent Talk, a Lab Tour and last but not least YOUR poster presentations.

Take the opportunity to **gain knowledge**, **present** your work, **discuss** scientific topics and **connect** with peers in a relaxed atmosphere.

The speakers will cover various topics around crystal growth and characterization- don't hesitate to ask questions and learn from them.

We wish you a pleasant meeting- enjoy and have fun!

**Best Regards** 

Sebastian Gruner Dr. Karoline Stolze Jan Philipp Wöhrle Dr. Ludwig Stockmeier

### Venue

The seminar will be held at:

Max-Born Saal, Max-Born-Str. 2a, 12489 Berlin-Adlershof (see the red circle "1" in the map on the next page)

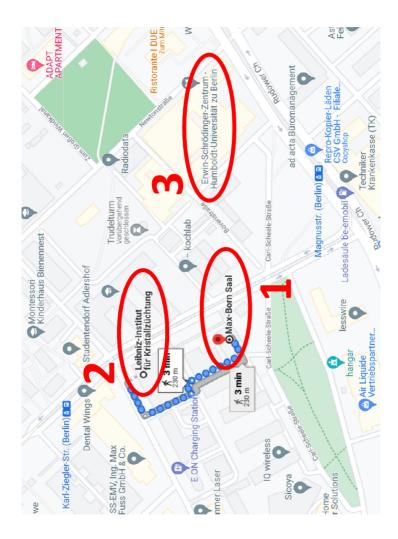
The lab tour will take place at the Leibniz-Institut für Kristallzüchtung Max-Born-Straße 2, 12489 Berlin-Adlershof (see "2" in the map).



### Corona test center

In case you need a rapid antigen test on Tuesday morning, the next test center is the "Medicare Testzentrum" at:

**Erwin-Schrödinger-Zentrum** next to GERDAN's Café, entrance from Newtonstraße (see "3" in the map).



# **Hygiene rules**

The participation is regulated according to the so called "3G-rule" (1 of the 3 following options needs to be fulfilled):

| - | compl. vaccinated | (2nd vaccination lies more than        |
|---|-------------------|--|
|   |                   | 14 days in the past)                   |
| - | recovered         | (recovery less than 6 months ago)      |
| - | tested            | (official rapid antigen test max. 24 h |
|   |                   | old or PCR test max. 48 h old).        |

#### The 3G-criteria will be verified at the registration.

The participant's name tag is proof of registration and also serves as 3G-proof.

#### Additionally, for indoor spaces wearing a medical mask that covers mouth and nose is mandatory (including the poster session).

Exceptions are:

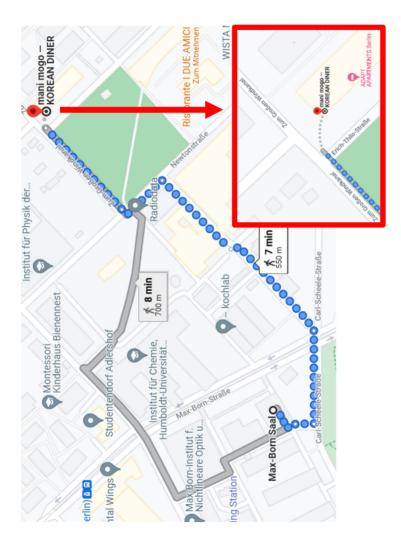
- at your seat in the lecture hall (please, don't change position)
- to consume food/drinks at the bar table
  (≤ 4 persons/bar table)
- at the dinner while sitting at the table

At the registration every participant has to accept the hygiene rules by signing a respective form.

Repeated violation against the rules of hygiene can lead to an exclusion from the event.

# Dinner

Restaurant "Mani Mogo", (<u>http://www.mani-mogo.com</u>) Erich-Thilo-Straße 3, 12489 Berlin



## **Talks and Poster Presentations**

#### Academic Talks (45 min):

Prof. Dr. Peter Rudolph (Crystal Technology Consulting, Berlin): "Über das Leben eines Kristallzüchters".

Prof. Saskia Fischer (Humboldt Uni Berlin): "Why size matters- nanopatterning in electronics".

Dr. Anton Jesche (Uni Augsburg, Physik): "Solutions for Crystal Growth: Crystal Growth from Solutions".

Dr. Hiroki Tanaka (IKZ Berlin): "Laser Cooling in Fluoride Crystals: Interdisciplinary Research Project".

#### Industry Talks (30 min):

Dr. Paul Sass (Scientific Instruments Dresden GmbH).

Dr. Artem Shalimov (Rigaku Europe SE): "14 methods for crystal structure characterization using one X-ray diffractometer".

Lars Grieger (Malvern PANalytical).

#### Patent Agent Talk (45 min):

Dr. Jörn Plettig (Berlin, Patent and law firm ltd): "Challenges and opportunities in the profession of patent attorney".

#### Poster Presentations (1:15 h:min) + Lightning Talks (3 min):

Felix Anger (IFW Dresden): "Growth and characterization of substitution variants of LaOFeAs single crystals".

Arved Enders-Seidlitz (IKZ Berlin): *"Experimental and numerical analysis of resistive and inductive heating in CZ growth".* 

Owen Ernst (IKZ Berlin): *"Development of novel bottom-up growth methods for crystalline thin film structures".* 

Maik Förste (TUBAF Freiberg): "HTVPE of GaN layers with facetted structures".

Sebastian Gruner (RWTH Aachen): *"Growth study and structural characterization on MBE grown Bi*<sub>2</sub>Se<sub>3</sub> thin films".

Abanoub Hanna (HZB Berlin): "Crystal growth, characterization and phase transition of the highly frustrated magnet  $PbCuTe_2O_6$ ".

Yujia Liu (IKZ Berlin): *"Strained <sup>28</sup>Si for quantum circuits by MBE-CVD combined growth"*.

Saskia Schimmel (FAU Erlangen): "Numerical simulations of ammonothermal crystal growth of GaN and pathways towards their experimental validation".

Sreejith Thamban (HZB Berlin): *"Single Crystal Growth and Physical Properties of Distorted Triangular Lattice Compound*  $La_2CuGe_2O_8$ ".

Isabel Streicher (IAF Freiburg): *"Development of AlScN HEMT Structures by MOCVD"*.

### Schedule

Tuesday, 5<sup>th</sup> of October:

09:30 - 10:30 Registration

10:30 - 11:00 Welcome Notes

11:00 - 11:45 Academic Talk 1 / Dr. Anton Jesche: "Solutions for Crystal Growth: Crystal Growth from Solutions".

11:45 - 12:30 Lightning Talks / 3 min poster presentation

12:30 - 13:45 Poster Session + Lunch (Pizza)

13:45 - 14:30 Academic Talk 2 / Dr. Hiroki Tanaka: "Laser Cooling in Fluoride Crystals: Interdisciplinary Research Project".

14:30 - 15:00 Industry Talk 1 / Dr. Paul Sass

15:00 - 15:30 Coffee Break

15:30 - 16:15 Academic Talk 3 / Prof. Peter Rudolph: "Über das Leben eines Kristallzüchters".

16:15 - 16:45 Industry Talk 2 / Dr. Artem Shalimov: "14 methods for crystal structure characterization using one X-ray diffractometer".

16:45 - 17:30 Coffee Break

17:30 - 18:00 Industry Talk 3 / Lars Grieger

#### 18:00 - 18:45 Academic Talk 4 / Prof. Saskia Fischer:

"Why size matters- nanopatterning in electronics".

18:45 - 19:00 Transfer to the restaurant

19:00 - open Dinner / Social Evening

#### Wednesday, 6<sup>th</sup> of October:

09:15 - 09:30 Arrival

- 09:30 10:30 Lab Tour (IKZ)
- 10:30 11:00 Break

#### 11:00 - 11:45 Patent Agent Talk / Dr. Jörn Plettig

"Challenges and opportunities in the profession of patent attorney".

#### 11:45 - 12:00 Closing Remarks

12:00 Registration for DKT21 conference

# **Next meetings**

... presumably in autumn 2022 in Freiberg, Saxony

Joint meeting of jDGKK & yDGK (young crystallographers)!

... presumably in spring 2023 (location not yet clear)

11<sup>th</sup> annual jDGKK meeting right before DKT23 conference

Stay informed about conferences, seminars and workshops on the DGKK webpage:

https://www.dgkk.de/tagungskalender.html

# German Crystal Growth Society/ Deutsche Gesellschaft für Kristallwachstum und Kristallzüchtung (DGKK)

Be part of our community of young crystal growers within the DGKK society and join the network of collegues, institutes and companies working in crystal growth!

As a society member you may easily get in touch with peers, do social networking, receive job offers via circular email and enjoy a reduced conference fee for the DKT.

The annual dues for students and PhD students is 20 $\in$ , for regular members it is 30 $\in$ .

For further information, please visit our website:

https://www.dgkk.de/mitgliedschaft/allgemeinemitgliedschaft.html

