

Meeting of the WP on crystallization of the EFCE

10/03/2022

On line meeting

Agenda

- Introduction of new members (delegates and elected)
- Status of the organization of ISIC 22 in Glasgow 2023
- Organization of the summer school 2022 on crystallization
- WP crystallization on social media
- Organization of ISIC 23: call for proposals
- Preparation of an EU project proposal (?)
- Any other business

Members attending the meeting

- Elodie Verdurand
- Jan Sefcik
- Elena Simone
- Simon Schiele
- Thomas Vetter
- Manfred Stepanski
- Bart Zwijnenburg
- Peter Daudey
- Riccardo Tomassetti
- Claudia Pudack
- Marjatta Louhi-Kultanen
- Piotr Synowiec
- Robert Geertman
- Steven Ferguson
- Beatrice Biscans

New members

- The lists of members has been updated on the website:
<https://efce.info/WPC.html>
- A link to the youtube channel and twitter account has been created
- Thomas Vetter is a new delegate from Denmark
- Simon Schiele and Kerstin Wohlgemuth elected members from Germany
- Elena Simone elected member from Italy
- Jan Sefcik elected member from the UK
- Elodie Verdurand elected member from Switzerland (previously permanent guest)

ISIC 22 Glasgow 2023

- Updates from Jan Sefcik and Joop ter Horst
- BACG will help in organizing the conference and take financial responsibility for the event
- BACG proposes having a discount for the fee of PhD students (due to its charitable status), as well as scheduling its annual lecture and young investigator award lecture
- Some BACG members will be part of the Scientific Committee
- No issues in terms of number of participants are foreseen
- In the preparation of the program a smooth distribution of talks from the world-wide ISIC community is guaranteed
- A professional conference organization company will be involved
- A part of the conference fee goes back to the EFCE (to be specified with EFCE)
- The WP fully supports the proposal

Summer School 2022 on Crystallization

- Organizing committee: Thomas Vetter, Kerstin Wohlgemuth, Simon Schiele, Claudia Pudack, Daniele Marchisio
- Dates: Wed June 29th – Sat July 2nd
- Location: TU Dortmund
- Program:
 - Wed afternoon Lecture 1: Solid forms and their thermodynamics
 - Thu morning Lecture 2: Nucleation and Growth
 - Thu afternoon social event (something inclusive and not dangerous)
 - Friday morning Lecture 3: Aggregation and breakage
 - Friday afternoon Lecture 4: Modelling and Control
 - Saturday morning: Open discussion on challenges in crystallization

Summary of Status

- **Defined organizing committee**
 - Daniele Marchisio, Claudia Pudack, Kerstin Wohlgemuth, Simon Schiele, Thomas Vetter
- **Discussed scope**
 - General crystallization school, rather than a more focused/specialized one (diff. from previous iterations)
- **Developed tentative schedule (next slide)**
- **Fixed location and dates**
 - TU Dortmund, 29.06-02.07.2022 (Wed. noon – Sat. noon)

Tentative schedule and topics

- Scope is a general crystallization school; covering the *fundamental aspects of industrial crystallization* plus applications.
- Organizing committee would like to propose lecture blocks given by two speakers each; ideally one industrial and one academic.
- Schedule permits four substantial lecture blocks plus social events:
 - Lecture 1 (Wed afternoon) – Solid forms and thermodynamics
 - Lecture 2 (Thu morning) – Nucleation and Growth
 - Social event (Thu afternoon); *Kerstin in charge*
 - Lecture 3 (Friday morning) - Aggregation/Agglomeration and Breakage
 - Lecture 4 (Fri afternoon) – Process design, modelling and control
 - Poster event – Groups of participants design a poster on the spot “Challenges in crystallization”; *Simon in charge*.
- Speaker suggestions on next slide

Speaker suggestions – *Looking for input from you!*

Speakers have not been approached yet; waiting for input from WPC before doing so.

Lecture 1: Solid forms and thermodynamics

(topics are connected – understanding solid forms and their thermodynamics are connected)

Lecture 2: Nucleation and growth

(ideally covering from fundamentals to rate laws)

Lecture 3: Aggregation and breakage

(ideally covering from fundamentals to rate laws; plus practical considerations/scale up)

Lecture 4: Process design, modelling and control

(would be great to have – some – continuity to topics covered in previous lectures)

WP crystallization on social media

- Elena Simone and Simon Schiele offered to help (thanks!)
- Who else wants to help?
- The idea is to start with something simple on LinkedIn and Twitter

Organization of ISIC 23

- Call for proposal for ISIC 23 in 2026
- ISIC 22 Scotland UK planned in 2023
- ISIC 21 Germany planned in 2020 (online in 2021)
- ISIC 20 Ireland (2017)
- ISIC 19 France (2014)
- ISIC 18 Switzerland (2011)
- ISIC 17 The Netherlands (2008)
- ISIC 16 Germany (2005)
- ISIC 15 Italy (2002)
- How do we want to proceed?

Preparation of a EU proposal

The ambitious EU research and innovation framework programme (2021-2027)



fuel EU's **scientific and technological excellence** and strengthen the European Research Area (ERA)

**Science
& technology**



tackle policy priorities, including **green and digital transitions** and Sustainable Development Goals

Society



boost Europe's **innovation uptake, competitiveness and jobs**

Economy

Preparation of a EU proposal

Five Missions Areas



**Adaptation to
climate change,
including societal
transformation**



Cancer



**Healthy oceans,
seas, coastal &
inland waters**

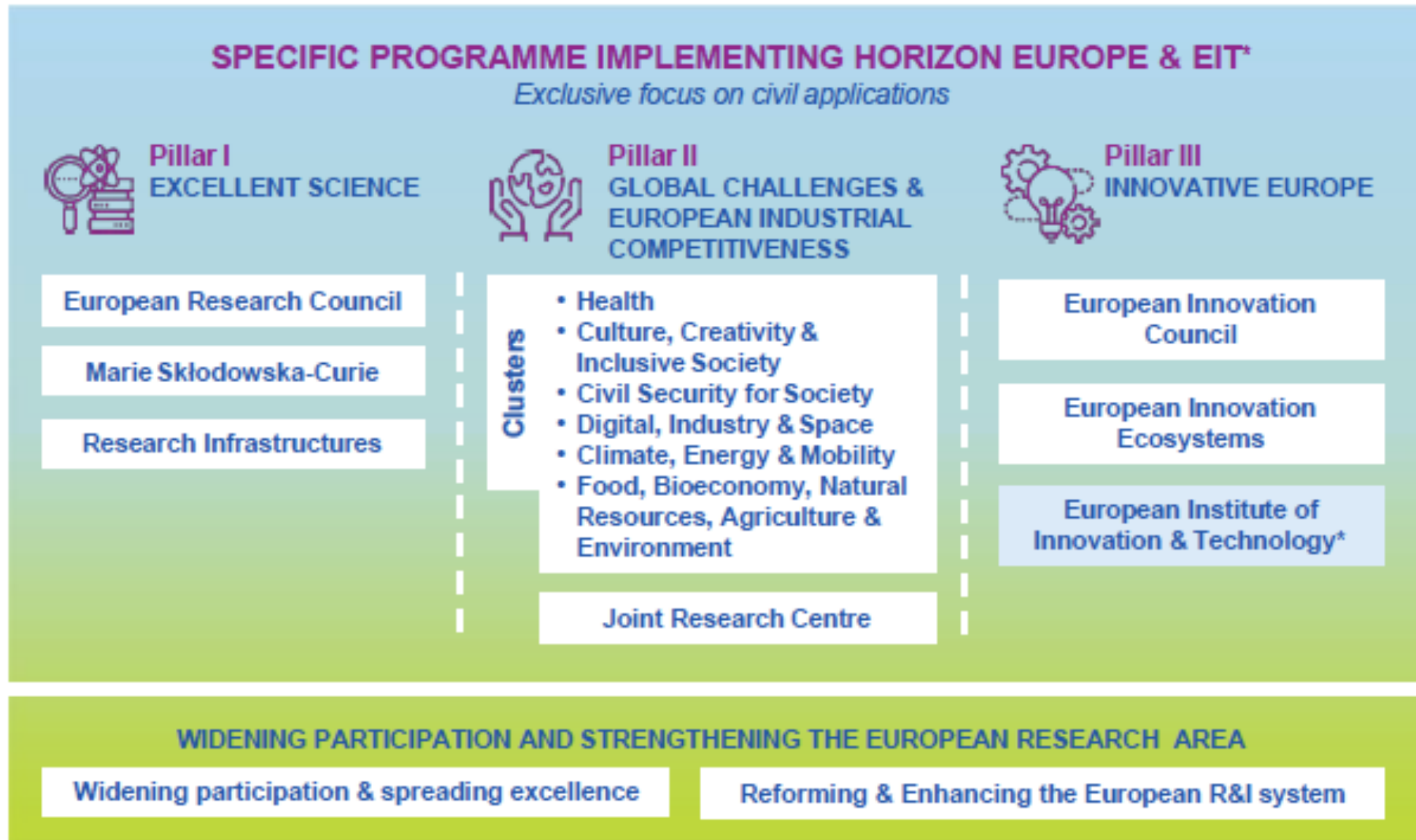


**Climate-neutral
& smart cities**



**Soil health &
food**

Preparation of a EU proposal



Preparation of a EU proposal

Reinforcing and extending the **excellence of the Union's science base**



European Research Council

Frontier research by the best researchers and their teams

€16 billion

Marie Skłodowska-Curie Actions

Equipping researchers with new knowledge and skills through mobility and training

€6.6 billion

Research Infrastructures

Integrated and inter-connected world-class research infrastructures

€2.4 billion

Preparation of a EU proposal

- **Doctoral Networks (DN)**

- Supporting programmes to train doctoral candidates in academic and non-academic organisations

- **Postdoctoral Fellowships (PF)**

- Supporting career perspectives and excellence of postdoctoral researchers

- **Staff Exchanges (SE)**

- Encouraging collaborations between organisations through staff exchanges

- **COFUND**

- Co-funding of regional, national and international programmes

- **MSCA and Citizens**

- Bringing research and researchers closer to the public at large



Preparation of a EU proposal

The MSCA Doctoral Networks aim:



- To train creative, entrepreneurial, innovative and resilient doctoral candidates, able to face current and future challenges and convert knowledge and ideas into products and services for economic and social benefit
- To raise the attractiveness and excellence of doctoral training in Europe
- To provide researchers with enhanced career perspectives in both the academic and non-academic sectors through international, interdisciplinary and inter-sectoral mobility combined with an innovation-oriented mind-set

Preparation of a EU proposal

Doctoral Networks (DN) - max. 360 person-months

- Will implement doctoral programmes, by partnerships of universities, research institutions and research infrastructures, businesses including SMEs, and other socio-economic actors from different countries across Europe and beyond



Industrial Doctorates (ID) - max. 540 person-months

- Train PhD candidates who wish develop their skills and step outside academia, in particular in industry and business
- Individual participants must be enrolled in a doctoral programme and jointly supervised by the academic and non-academic partners (min. 50 %)

Joint Doctorates (JD) - max. 540 person-months

- Provide a highly integrated type of international, inter-sectoral and interdisciplinary collaboration
- Leading to a joint doctoral degree or multiple doctoral degrees awarded by the participating institutions
- PhD candidates must be enrolled in a joint programme and be jointly supervised

For all types: Each beneficiary must recruit doctoral candidate under an employment contract or equivalent direct contract with full social security coverage!

Preparation of a EU proposal

Contributions for recruited researchers per person-month					Institutional unit contributions per person-month	
Living allowance*	Mobility allowance	Family allowance (if applicable)	Long-term leave allowance (if applicable, e.g. parental leave)	Special needs allowance (if applicable, e.g. for researcher with disabilities)	Research, training and networking contribution	<i>Management and indirect contribution</i>
EUR 3 400	EUR 600	EUR 660	EUR 4 000 x % covered by the beneficiary	requested unit x (1/number of months)	EUR 1 600	EUR 1 200

*Country correction coefficient, e.g., DE: 98.3 %; IT: 97.4 %; FR: 116.4 %; CZ: 79.1 %

Mobility rule: Researchers must not have resided or carried out their main activity in the country of the recruiting beneficiary for more than 12 months in the 36 months immediately before their recruitment date

Preparation of a EU proposal

Call: HORIZON-MSCA-**2021**-DN-01:

- Budget 2021: 403 Mio.€
- Call lunch: 22.06.2021
- Submission deadline: 16.11.2021
- 1076 proposals submitted (897 DN, 101 DN-ID, 78 DN-JD) – ca. 12 % success rate
- Results expected in April 2022; Projects start earliest August 2022

Call: HORIZON-MSCA-**2022**-DN-01:

- Budget DN 2022: 427 Mio.€
- Call expected: 03.05.2022
- Deadline expected: **15.11.2022**

Re-submission possible (if score higher than 80%)!

Any other business (?)