

WP *vis-à-vis* meeting

Daniele Marchisio

Agenda

- Current situation on composition of WP
- New members from Japan, Thailand, Turkey
- EU proposal
- Spotlight talk previous and future
- BIWIC how did it go?
- Next summer school
- Actions on diversity, equity and inclusion and climate change

Composition of WP

Hungary	Delegate	Prof. Béla G. Lakatos	Pannon University, Department of Process Engineering, Egyetem utca 10, 8200 Veszprém, Hungary Tel: +36 88 422 022 Ext. 4210 E-mail: lakatos@fmt.vein.hu	
	Delegate	Dr. Hajnalka Pataki	Budapest University of Technology and Economics, Department of Organic Chemistry and Technology Budafoki Street 8, Budapest, F II. mezzanine 25. Tel.: +36 (1) 463-4129 Mobile:+36 20 402 6877 E-mail: pataki.hajnalka@vbk.bme.hu	OK
	Delegate	Dr. Imre Markovits	EGIS Pharmaceuticals Plc, Kereszturi ut 30-38, 1116 Budapest, Hungary Tel: +36 20 5409350 E-mail: markovits.imre@egis.hu Linkedin: linkedin.com/in/imre-markovits-03137a19	
	Delegate	Dr. Ákos Borsos	Egis Pharmaceuticals Ltd. 30-38 Keresztúri Str, Budapest 1106 Mobile: +36 70 586 0009 E-mail: borsos.akos@egis.hu	OK

Composition of WP

Ireland	Delegate	Dr. Steven Ferguson	<p>UCD School of Chemical and Bioprocess Engineering, Engineering and Material Science Centre, University College Dublin, Belfield, Dublin 4 Tel: +353 1 861541149 E-mail: steven.ferguson@ucd.ie Website: https://people.ucd.ie/steven.ferguson Twitter: https://twitter.com/ferguson_ucd?lang=en Linkedin: https://www.linkedin.com/in/steven-ferguson-8164541a/</p>	OK
	Delegate	Dr. Marko Ukrainczyk	<p>Senior Process Development Scientist, APC Ltd, Dublin, Ireland, D18 DH50 Tel: +353 1 5175420 E-mail: marko.ukrainczyk@aprocess.com Website: https://aprocess.com Linkedin: https://www.linkedin.com/in/marko-ukrainczyk-2aaa1b86</p>	ceased
	Delegate	Dr. Barbara Wood	<p>SENIOR RESEARCH ENGINEER, APC LTD, Dublin, Ireland, D18 DH50 E-mail: Barbara.wood@aprocess.com LinkedIn: www.linkedin.com/in/barbara-wood-15b2741a</p>	Approval pending

Composition of WP

Italy	Delegate	Prof. Daniele Marchisio	<p>Politecnico di Torino, Department of Applied Science and Technology, Institute of Chemical Engineering, MuSyChEn Research group - Multiscale Modelling Team, Corso Duca degli Abruzzi 24, 10129 Torino, Italy Tel: +39 011 0904622 E-mail: daniele.marchisio@polito.it Website: https://www.disat.polito.it/it/personale/scheda/(nominativo)/daniele.marchisio Twitter: @DanieleMarchis1 Linkedin: https://www.linkedin.com/in/danielemarchisio/</p>	OK
	Delegate	Ing. Riccardo Tomassetti	<p>Director Chemical & Pharma Sales – BU LPT Execution – EMEA GEA PE Italy; Liquid & Powder Technologies; LPT Execution – EMEA Tel: +39 335 63 99 212 Email: riccardo.tomassetti@gea.com Website: www.gea.com Linkedin: https://www.linkedin.com/in/riccardo-tomassetti-814498201/</p>	OK

Composition of WP

The Netherlands	Delegate	Dr. Ir. Peter J. Daudey	Delft University of Technology, Delft Product & Process Design Institute, Delft, The Netherlands Tel: +31 6 20034428 E-mail: P.J.Daudey@tudelft.nl Website: https://www.tudelft.nl/staff/p.j.daudey/ Linkedin: https://www.linkedin.com/in/peterdaudey/	Retiring
	New delegate	Dr. Burak Eral	Delft University of Technology, Delft, The Netherlands Tel: +31 15 27 86715 E-mail: H.B.Eral@tudelft.nl Website: Linkedin:	OK
	Delegate	Dr. Bart Zwijnenburg	Nobian Industrial Chemicals B.V., Senior R&D Expert Salt Technology, Zutphenseweg 10, 7418 AJ Deventer, The Netherlands Tel: +31 6 2750 7931 E-mail: bart.zwijnenburg@nobian.com Website: www.nobian.com Twitter: not available Linkedin: https://www.linkedin.com/in/bart-zwijnenburg-8958b88/	OK

Composition of WP

Brazil	Guest	Dr. Roberto Guardani	University Sao Paulo, LSCP, Department of Chemical Engineering, Polytechnic School, 05508-900 Sao Paulo, SP, Brazil Tel: +55 11 818 2237 or 2246 E-mail: guardani@usp.br	OK
Brazil	Guest	Prof. Marcelo Martins Seckler	Universidade de São Paulo; Escola Politécnica Chemical Engineering Department Polytechnic School, University of São Paulo Tel: +55 11 99963 5142 E-mail: marcelo.seckler@usp.br	
France	Guest	Dr. Laurent Lafferrère	PCAS, Director, R&C Centre, 2-8 rue de Rouen, Z.I. de Limay Porcheville, 78440 Porcheville, France Tel: +33 1 34 79 55 46 E-mail: laurent.Lafferrere@covance.com, laurent.lafferrere@pcas.com	OK

Composition of WP

Proposal for a new guest member from turkey

Dr. Sevgi POLAT

1. CONTACT DETAILS

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New members from Japan, Thailand, Turkey

- While discussing the keynote speakers for this year ISIC we realized that we do not have many contacts with Japan, Thailand and Turkey
- I tried to make contact with ... with no success 😞

Dear Prof. Hirasawa,

My name is Daniele Marchisio and I am chairing the WP on ci

<https://efce.info/WPC.html>

As you might know, we organize every three years the ISIC co

<https://www.isic2023.com/>

We would like to get more in touch with the Japanese crystallization organization of events, such as conferences and schools. Are you able to give me a brief summary of the crystallization

Any suggestion, idea or contact would be great!

Thanks very much in advance.

Cordiali Saluti / Best regards

Daniele Marchisio (he/him)

Dear Prof. Ujihara,

My name is Daniele Marchisio and I am chairing the W

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Thanks very much in advance.


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Daniele Marchisio (he/him)

EU proposal

- Last year we submitted a proposal for a European Doctorate Network within MSCA
- The proposal received very good evaluations but was not funded
- The plan is to resubmit with the following focus:

We are interested in COMPLEX systems and processes. They are complex because of their composition. We focus on multicomponent systems which have at least 3 components, for example: one solute and two solvents (e.g. anti-solvent crystallization), or more than 3, for example: multiple solutes and one or more solvents.

Proposal Evaluation Form		
	EUROPEAN COMMISSION Horizon Europe Framework Programme (HORIZON)	Evaluation Summary Report - Doctoral Networks

Call: HORIZON-MSCA-2022-DN-01
 Type of action: HORIZON-TMA-MSCA-DN
 Proposal number: 101120257
 Proposal acronym: COMPLEX
 Duration (months): 48
 Proposal title: An Industrial Toolbox for Crystallization in Complex Multicomponent Systems
 Activity: ENG

N.	Proposer name	Country	Total eligible costs	%	Grant Requested	%
1	UNIVERSITE DE ROUEN NORMANDIE	FR	0	-	565,387.2	20.75%
2	POLITECNICO DI TORINO	IT	0	-	518,875.2	19.05%
3	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES	0	-	251,971.2	9.25%
4	TECHNISCHE UNIVERSITAT DORTMUND	DE	0	-	260,539.2	9.56%
5	UNIVERSITY OF STRATHCLYDE	UK	0	-	307,785.6	11.30%
6	INSTITUT NATIONAL POLYTECHNIQUE DE TOULOUSE	FR	0	-	282,693.6	10.38%
7	STICHTING RADBOUD UNIVERSITEIT	NL	0	-	274,370.4	10.07%
8	JANSSEN PHARMACEUTICA NV	BE	0	-	262,620	9.64%
9	TeraCrysta SRL	RO	0	-	0	0.00%
10	SYNGENTA LIMITED	UK	0	-	0	0.00%
11	UNIVERSIDAD DE GRANADA	ES	0	-	0	0.00%
12	UMICORE	BE	0	-	0	0.00%
13	SOCIETE DES PRODUITS NESTLE SA	CH	0	-	0	0.00%
14	Plinke GmbH	DE	0	-	0	0.00%
Total:			0		2,724,242.4	

Abstract:

Industries need highly skilled academically trained experts and powerful sets of tools enabling the design, control & prediction of optimized & efficient production process of future high-value products. The COMPLEX Network will in parallel train 10 ESRs and develop general tools, approaches, and methods for the crystallization in complex multicomponent industrial systems (COMPLEX) of high value products that range from pharmaceutical salts and co-crystals to complex metal salts.

The training objective of the COMPLEX network is to deliver a COMPLEX skills toolbox of knowledge, personal, organizational and impact skills to a group of multi-disciplinary scientists and engineers in the interdisciplinary and cross-sectional field of Industrial Crystallization. All ESRs obtain dedicated training through their research project, network events, webinar courses, management involvement and an academic & industrial secondment.

The research objective of the COMPLEX Network is to jointly construct a general COMPLEX Industrial Toolbox on Industrial Crystallization that provides next generation tools, approaches, and methods to industry for industrial crystallization process development. The strongly involved industrial partners will ensure that the COMPLEX Industrial Toolbox fulfils their requirements in the skills gap areas Enabling Crystallization, Crystallization Process Engineering, and Understanding Crystallization.

COMPLEX brings together 8 academic and 6 industrial partners resulting in an unparalleled combination of Solid-State Physics, Physical Chemistry and Process Engineering training and research within the multidisciplinary research area of Industrial Crystallization.

Evaluation Summary Report

Evaluation Result

Total score: 90.00% (Threshold: 70/100.00)

Spotlight talk

- Spotlight talk 2022 Role of crystallization in the production of battery materials and in battery recycling:
<https://www.youtube.com/watch?v=yCDJkqP3KRw>
- Spotlight talk 2023 (in collaboration with WP on particle characterization) Innovative characterization techniques for particulate and crystallization processes:
<https://www.youtube.com/watch?v=j4vSXajEBmU&t=552s>
- Ideas for 2024?

Report on BIWIC

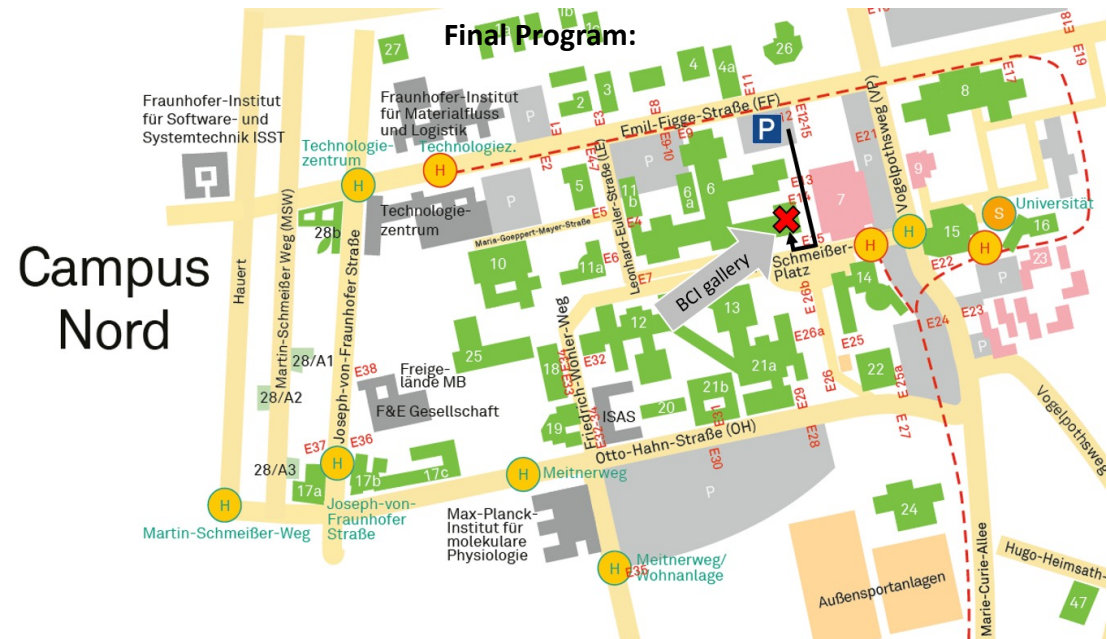
Michael Svard

Summer school 2022

2022 Summer School on Crystallization - Organized by the WP on Crystallization of the EFCE

<https://efce.info/WPC.html>

Venue: BCI gallery – TU Dortmund University



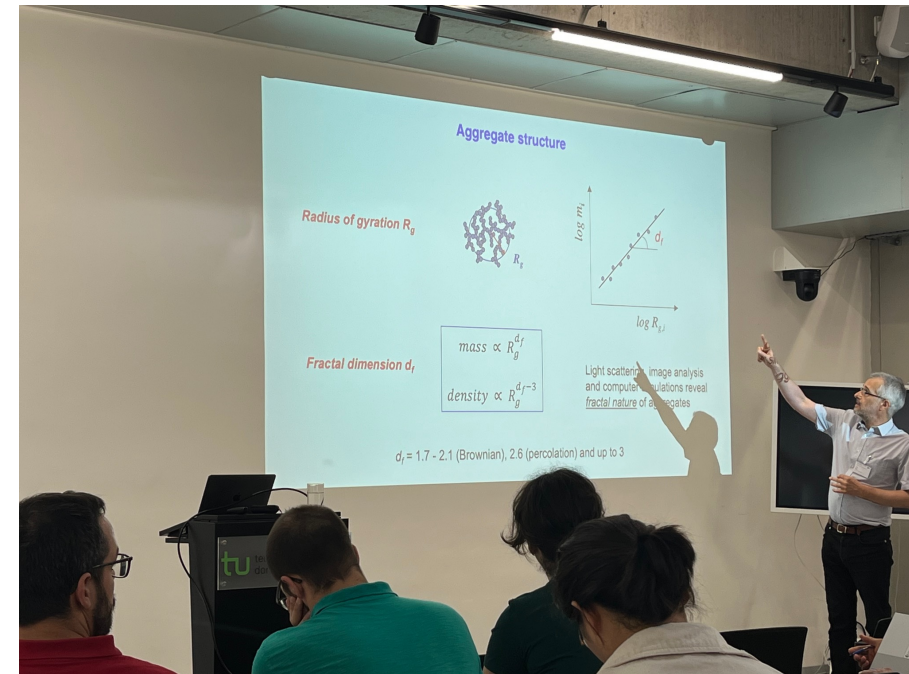
Day	Time	Lecturer	Topic
Wednesday June 29 th	14:00 – 15:30	Dr Susan Reutzel-Edens – Cambridge Crystallographic Data Centre	Crystal forms
	15:30 – 16:00	Self-pay coffee break	
	16:00 – 17:30	Prof Dr Heike Lorenz – Max Planck Institute for Dynamics of Complex Technical Systems (Magdeburg)	Thermodynamics for crystallization

Thursday June 30 th	9:00 – 10:30	Dr Luca Bosetti – ETH Zurich	Nucleation and growth
	10:30 – 11:00	Self-pay coffee break	
	11:00 – 12:30	Dr Giovanni Maria Maggioni - Bayer	Nucleation and growth
	12:30 – 13:30	Self-pay lunch break	
	14:00 – 18:00	Social activity at Revierpark Wischlingen	
	19:00 – 22:00	Social dinner	

Friday July 1 st	9:00 – 10:30	Prof Dr Jan Sefcik – Strathclyde University	Agglomeration & breakage
	10:30 – 11:00	Self-pay coffee break	
	11:00 – 12:30	Dr. Hassan Mumtaz - Applied Materials	Agglomeration & breakage
	12:30 – 14:00	Self-pay lunch break	
	14:00 – 15:30	Dr Ashwin Kumar Rajagopalan - University of Manchester	Process design, modelling and control
	15:30 – 16:00	Self-pay coffee break	
	16:00 – 17:30	Dr Mei Lee – Fellow at GlaxoSmithKline	Process design, modelling and control

Saturday July 2 nd	9:00 – 12:00	Group work on challenges of crystallization, future school topics & communication with the outer public	
	12:00 – 12:30	Wrap up and conclusions	

Summer school 2022



Summer school 2024: ideas?

Action on diversity, equity and inclusion (DEI)

- The main idea is that there is privilege (in relation to power) and privileged individuals (white, cis-gender man, fluent in English, born and raised in the same country where they live, ...)
- This means that marginalized individual might not get into a position of power, although they are talented and could contribute to the growth of society **and our scientific community**
- In this sense **diversity is a value**
- What actions could we undertake? What can we do (given that this is a huge cultural problem that goes beyond our possibilities to act)?

WHEEL OF POWER/PRIVILEGE



Adapted from ccrweb.ca

@sylvriaduckworth

Action on diversity, equity and inclusion (DEI)

- My proposal: a scientific approach (first measure, then build a theory, then take action)
- We first need to collect data!
- Let us collect for all the future conferences and events during registration data concerning the participants
- Age, Gender, Sexual orientation, Ethnicity, ...
- So that we have an ANONYMOUS database that we could use for designing future actions
- Let us plan within events a DEI session as done in other conferences

#FluidizationXVII

Less than 8 days are left until the long-awaited Fluidization XVII Conference. The countdown has also started for the Panel Session organized by the DEI Committee (Diversity, Equity, Inclusion). The panel on Implicit Bias and Underrepresentation in STEM fields will be held on Tuesday, May 23, 3:15 – 5:15 pm, at the Sheraton Grand Hotel and Spa in Edinburgh. We are happy to extend participation to people not attending the conference. In this instance, registration to the panel is required through the following link: <https://lnkd.in/dSATxJFB>

Looking forward to meet in Edinburgh!!!



Kate Sang



Yvonne Baker



Chris Boyce

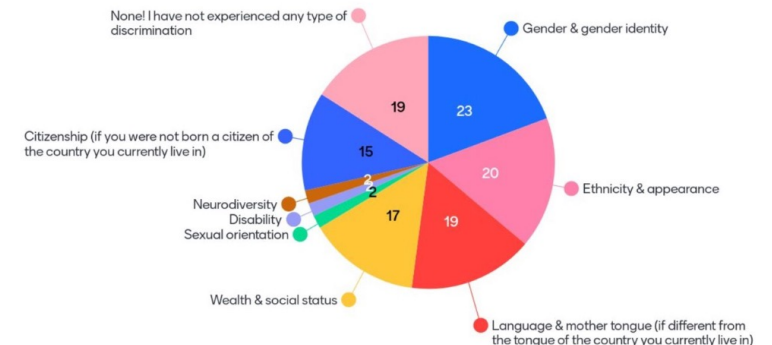


Ollie Folayan



Anna Köhler

(1) What kind of discrimination have you experienced in your professional life?



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Monday, 22 May

Plenary Lecture | 09:50 - 10:20



Adriana Paluszny
Imperial College London, UK

Watson Forum: A career in (porous media) modelling

DEI Workshop | 12:35 - 13:45

Later in the day, there will be a lunch-time workshop. This event will be open to all conference participants. Lunch will be provided.

Panel members:

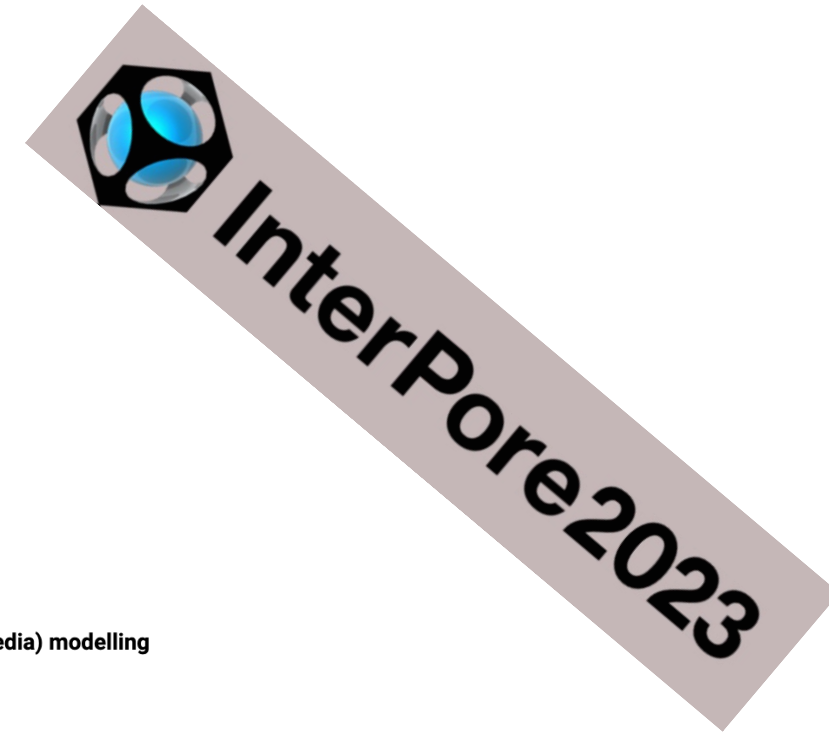
Adriana Paluszny
Imperial College London, UK

Raffaella Ocone
Heriot-Watt University, UK

Sebastian Geiger
Delft University of Technology, NL

Anna Herring
University of Tennessee, US

Kamaljit Singh
Heriot-Watt University, UK



Actions concerning CO2 emissions, carbon footprint and compensation

- We discussed a couple of times the issue of CO2 emissions related to travelling and conference organization
- Can we do something to reduce CO2 emission? Support businesses working on locally grown food (locavore) principles for catering?
- Introduce in the registration fee a voluntary payment for registered CO2 emission compensation measures?

Any other business?