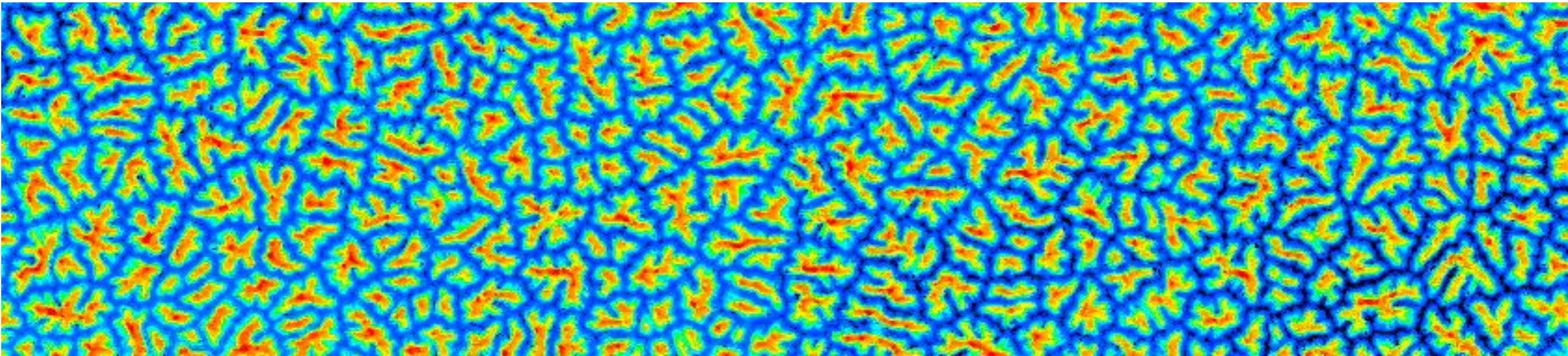


PRN 2021 – looking back

Participant information, June 2nd 2021



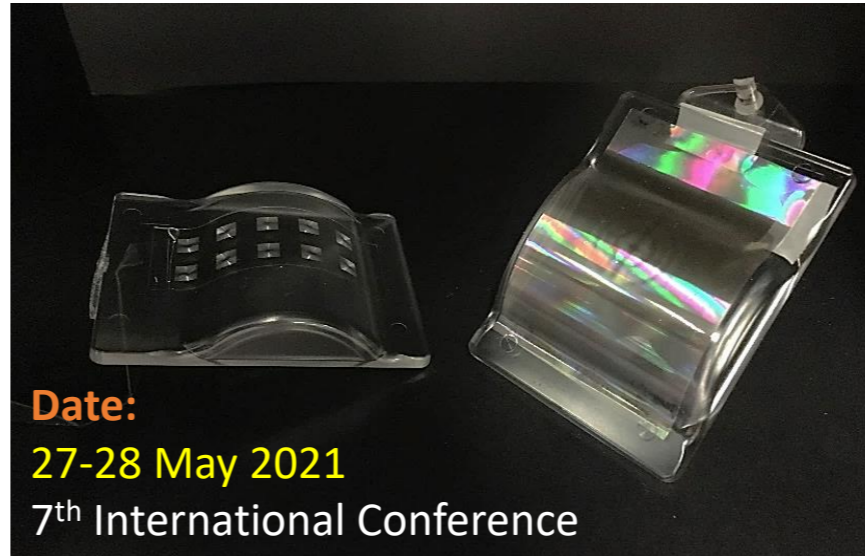
Per Magnus Kristiansen

Institute of Polymer Nanotechnology (INKA)

University of Applied Sciences and Arts Northwestern Switzerland (FHNW)

PRN 2021

Polymer Replication on Nanoscale



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micromachines
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13:00-13:15 Per Magnus Kristiansen (INKA FHNW, Switzerland)
"Welcome to the Polymer Replication on Nanoscale 2021"

We offered a very diverse and rich scientific program ☺

Session 1: Mastering, Tooling and Integration (13:15-14:45)

Chair: Per Magnus Kristi

13:15-13:35 Invited: Ror
"State of the art and fut
micro-machining of poly

13:40-13:55 Nan Zhang
"Development of a nove
micro/nano mould base

14:00-14:15 Jerome We
"Origination of super-sn

14:20-14:30 Laurent Fe
"The role of arts in scien

14.30-14:40 Nan Zhang
"Advanced Manufacturi
Announcement of a Spe

14.45-15:30 **Coffee brec**

15:30-15.55 Invited: Rei
"Microlens Imprint for A

Session 2: Nanoimprint Lithography (16:00-17:20),

Chair: Helmut Schift

16:00-16:15 Celestir
"Polymer supports fo
X-ray free electron lo

16:20-16:35 Benjam
"Nanoimprint and m
of view diffractive op

16:40-16:55 Yuyang
"Development of cor
nanomaterials with

17:00-17:15 Shahan
"Microfabrication of
serve as artificial rea

17:20-17:50 **Coffee**

17:50-18:15 Invited:
"Hierarchical Carbon
Nanoscale: Integrat
Photothermal Process

18:20-18:30 Closing remarks by Laurent Feuz (FHNW, Switzerland)

18:30-19:30 **Virtual beer & networking** (optional)

Session 3: Industrial Replication Technologies I (09:00-10:30)

Chair: Per Magnus Kristia

09:00-09:25 Invited: Thon
"Thermoplastic 3D nanofl

09:30-09:45 Nekane Loza
"Microtexturation of liqui
injection moulding using l

09:50-10:05 Guggi Kofod
"A traceability system for

10:10-10:25 Carlos Sáez (I
"Replication of hierarchica
via Isothermal injection m

10:30-11:00 **Coffee break**

11:00-11:20 Selected people from the INKA Team (FI
"Virtual Lab Tour – insights into our infrastructure & c
in the field of functional polymer surfaces – and beyo

Session 4: Industrial Replication Technologies II (11:20-12:40)

Chair: Laurent Feuz (FHI

11:20-11:35 Invited: Anc
"The watermark for plas

11:40-11:55 Helmut Sch
"How to keep a good ski
extrusion coated film on

12:00-12:25 Invited: Raf
"Roadmaps for large are

12:30-13:00 **Pre-lunch b**

13:00-14:30 **Lunch brea**

11:00-11:20 Selected people from the INKA Team (FI
"Virtual Lab Tour – insights into our infrastructure & c
in the field of functional polymer surfaces – and beyo

Session 5: Metrology, Simulation and Modeling (14:30-15:30)

Chair: Jerome Werder (FHNW, Switzerland)

14:30-14:45 Tamara Aderneuer (CSEM Muttenz, Switzerland)
"Advanced metrology of freeform micro-optical elements"

14:50-15:05 Nikolaos Lempesis (EPFL, Switzerland)
"Controlling wettability through modeling-based
surface topography engineering"

15:10-15:25 Jelle Snieder (TU Delft, The Netherlands)
"Simulating the Layer Thickness in Roll-to-Plate
UV Nanoimprint Lithography"

15:30-16:00 **Coffee break** (break-out sessions + Session 5 Q&A)
last chance for Best Talks Award voting!

16:00-16:15 **Announcement of Best Talk Awards**

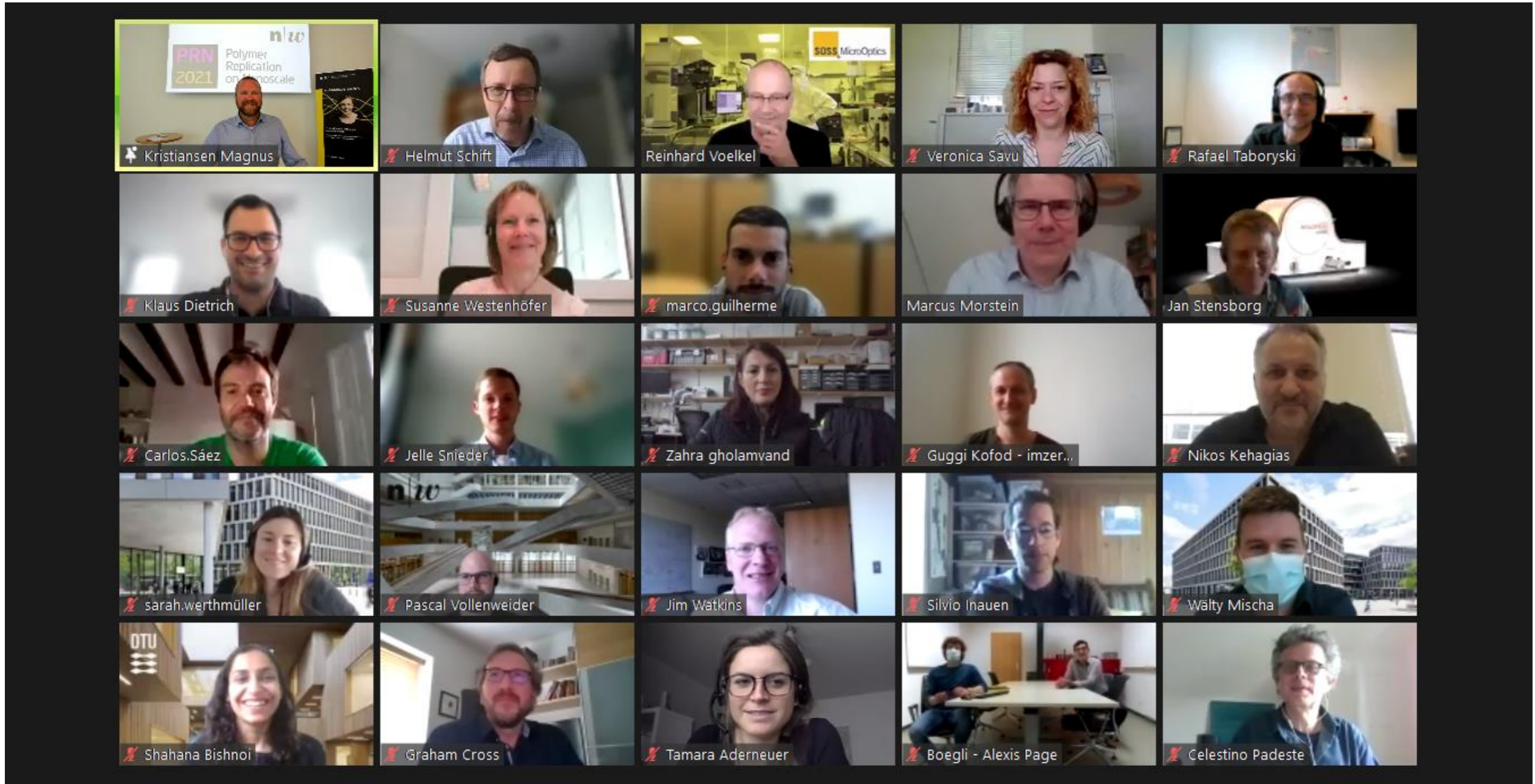
16:15-16:30 Closing by Per Magnus Kristiansen (FHNW, Switzerland)
"Polymer Replication on Nanoscale – quo vadis?"

16:30 This is the end of PRN2021

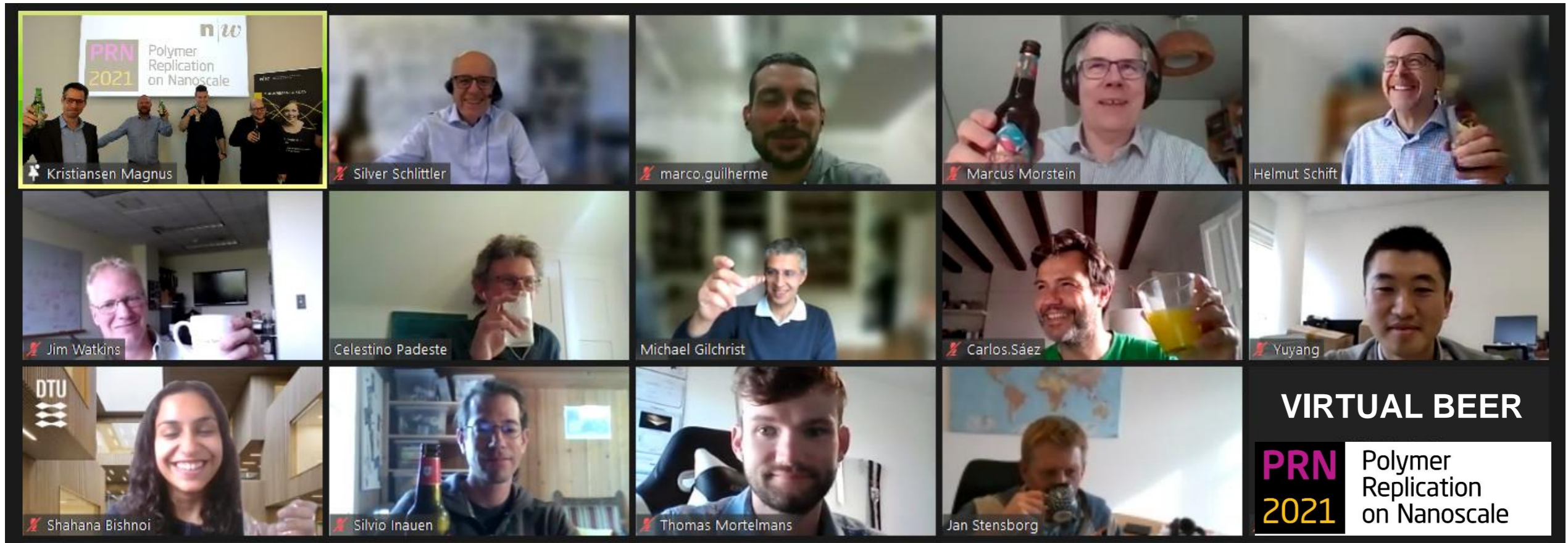
PRN 2021 - just a few figures (*as shown at the end of Day 2, 28.5.2021*)

- **3432375048** – zoom meeting ID = my private zoom room → **keep it to get in touch**
- **61** registered participants
- **60% academia, 35% industry and 5% non-profit**
- **40-45** people present on average over both days
- **19** splendid talks
- **lively break out sessions - thanks to you!**
- **15 min virtual lab tour - at least factor 4 faster than live 😊**

▼ Nan Zhang	Beitreten
<input type="radio"/> Marcus Morstein (nicht beigetreten)	
<input checked="" type="radio"/> Nan Zhang	
<input type="radio"/> sarah.werthmüller (nicht beigetreten)	
<input checked="" type="radio"/> Thierry	
<input checked="" type="radio"/> Ton Offermans (CSEM)	
<input type="radio"/> Yuyang (nicht beigetreten)	
▼ Jerome Werder	Beitreten
<input type="radio"/> Benjamin Gallinet (nicht beigetreten)	
<input checked="" type="radio"/> Celestino Padeste	
<input checked="" type="radio"/> Guggi Kofod - imzert.com	
<input type="radio"/> Jelle Snieder (nicht beigetreten)	
<input checked="" type="radio"/> jerome.werder	
<input checked="" type="radio"/> Klaus Dietrich	
<input checked="" type="radio"/> Laurent Feuz	
<input checked="" type="radio"/> marco.guilherme	
<input type="radio"/> Susanne Westenhöfer (nicht beigetreten)	
<input checked="" type="radio"/> Zahra gholamvand	
▼ Networking/Coffee Chat	Beitreten
<input checked="" type="radio"/> Helmut Schiff	
<input checked="" type="radio"/> Rafael Taboryski	
<input checked="" type="radio"/> Veronica Savu	







A grid of 30 video thumbnails from a Zoom meeting. Each thumbnail shows a participant's video feed with their name at the bottom. The participants are: Kristiansen Magnus, Reinhard Voelkel, marco.guilherme, Susanne Westenhöfer, Tamara Aderneuer, Marcus Morstein, Shahana Bishnoi, jerome.werder, jan stensborg, Marek Krehel, Guggi Kofod - imzer..., Rafael Taboryski, André Bernard (matr...), Nikos Lempesis, Daniel Widner, Jelle Snieder, Nan Zhang, Laurent Feuz, Thomas Mortelmans, Majid Fazeli Jadidi, Boegli - Alexis Page, Michael Gilchrist, Wälty Mischa, Celestino Padeste, Antonin Macquart, Nekane Lozano, Rytka Christian, Pascal Vollenweider, Helmut Schiff, michael.grob, and Graham Cross. A logo for 'PRN 2021 Polymer Replication on Nanoscale' is visible in the bottom right corner of the grid.

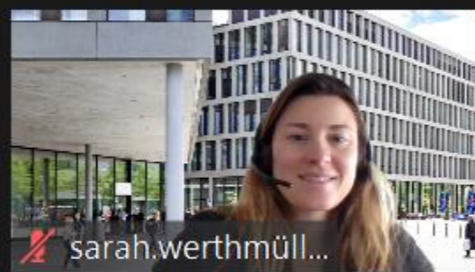
A glimpse behind the scene - our «zoom hub» during the last days



some pictures for the web 😊



🔴 Silvio Inauen



🔴 sarah.werthmüll...



🔴 Veronica Savu



🔴 jan



🔴 Klaus Dietrich



🔴 3D AG, Marek K...



🔴 Reinhard Voelkel



🔴 Kristiansen Magnus



🔴 Carlos.Sáez



🔴 Ronald Holtz



🔴 Marcus Morstein

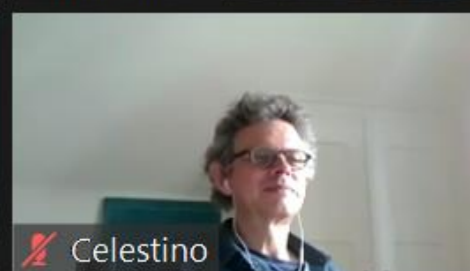


🔴 Helmut Schiff

PRN 2021 Polymer Replication on Nanoscale



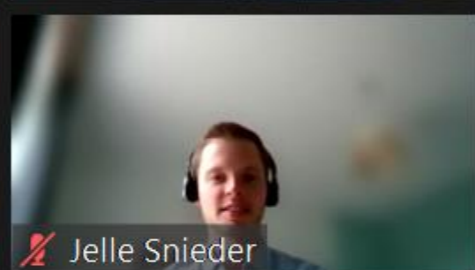
🔴 Susanne Weste...



🔴 Celestino



🔴 armin.stump



🔴 Jelle Snieder



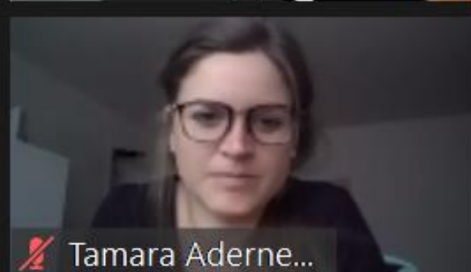
🔴 sonja.neuhaus



🔴 Guggi Kofod - i...



🔴 michael.grob



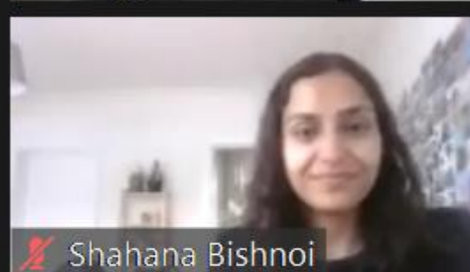
🔴 Tamara Aderne...



🔴 Ton Offermans (...



🔴 Pascal Vollenwe...



🔴 Shahana Bishnoi



🔴 Antonin Macqu...



PRN 2021 Polymer Replication on Nanoscale n/w

Kristiansen Magnus



sarah.werthmüll...



Silver Schlittler



DTU

Shahana Bishnoi



Yuyang



Jim Watkins



csem

Benjamin Gallin...

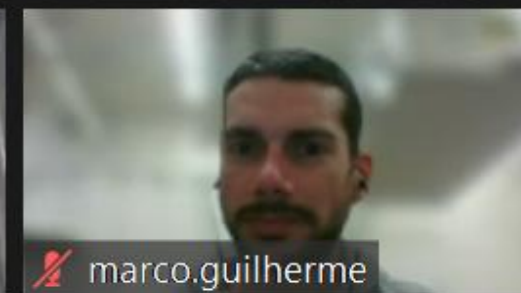


n/w

Pascal Vollenwe...



Carlos.Sáez



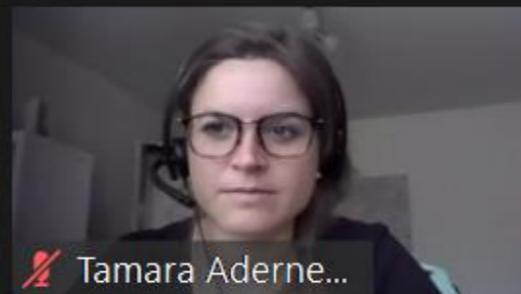
marco.guilherme



michael.grob



Marcus Morstein



Tamara Aderne...



Thomas Mortel...



Wälty Mischa



Silvio Inauen



Helmut Schiff



n/w

mer
cation
noscale

Laurent Feuz



Jelle Snieder

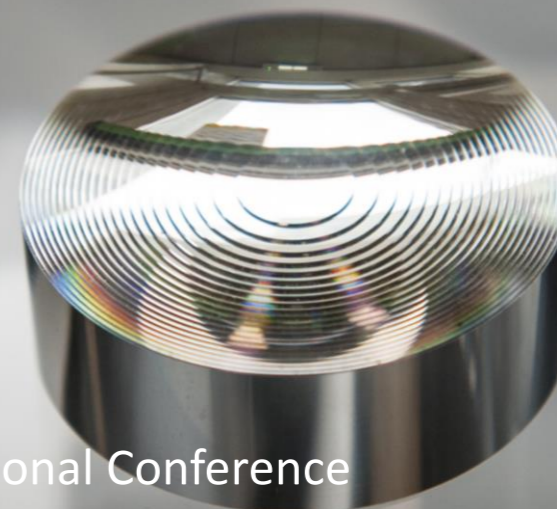


PRN 2021 Polymer Replication on Nanoscale

PRN
2022

**Polymer
Replication
on Nanoscale**

Date:
9~10, May
8th, International Conference



Website: www.prn-conference.com



Venue: University College Dublin

PRN 2021 Image Award

Submission:	Please send your best images of your research, stating the title, description, and scale to prn2020.technik@fhnw.ch	
Requirements:	The image should have been created during research conducted in 2021	
Submission Deadline:	October 1 st 2021	
Announcement of winners:	December 2021	
Celebration of winners:	PRN 2022	
Prizes:	1 st	CHF 500.-
	2 nd	CHF 250.-
	3 rd	CHF 100.-



This information is also available in the conference booklet.