

Welcome  
to the

**NEXT  
LEVEL**



# DPI Annual Meeting 2018

Dr. Jacques Joosten

13 November 2018



## This afternoon's programme

13.30	DPI Annual Meeting	Jacques Joosten - Managing Director DPI
14.00	DPI Golden Thesis Award	Presentations by the three nominees
15.00	Break and poster session	
15.30	Circular Economy	Lectures by invited speakers
18.30	Conference dinner	
21.00	Opportunity to visit GLOW Eindhoven	

During the poster sessions, the audience will vote for the three best posters that will receive the DPI Poster Award.



## What is DPI?

- Unique, independent international collaboration platform for industry-defined polymer research
- Cost-effective solution through pooling of resources
- Choice of the best available competences from research groups across the world
- Continuous supply of industrially oriented and competently trained new national and international talent



## The transition

- 2017: 20<sup>th</sup> Anniversary of DPI
- 2017/2018: Introduction of new format:  
funding primarily from industrial partners
- Initial focus on four programme areas:
  - Polyolefins
  - Performance Polymers
  - Polymers for Oil & Gas
  - Functional Polymers and Surfaces



## DPI – A New Era

- Unanimous and definitive green light for continuation of DPI
- New Council of Participants installed
- New industrial partners: Dow Chemical and Hutchinson
- Total industrial participations: 17
- Number of projects in place: 53
- Number of researchers involved: 60



## DPI's Current Partner Base

  
HUTCHINSON®



AkzoNobel

**TEIJIN**



Braskem

  
**BOREALIS**

سابك  
sabic



  
**Reliance**  
Industries Limited



**ExxonMobil**

**SNF FLOERGER**

**SKF**

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Research



**DPI**

The Polymer  
Research Platform





## 2018: Highlights – 1

### Scientific achievements and recognitions

- Number of DPI Publications (2017): 70
- Number of PhD Theses (2017): 10
- GRACM PhD Award for DPI postdoc Georgios Vogiatzis
- DPI to again co-organise Blue Sky Conference in 2019
- Former DPI Scientific Director Thijs Michels publishes article “How Polyethylene Came About” in *europysicsnews*



## 2018 Highlights - 2

### Spin-offs

- AkzoNobel and Bio-On join forces to continue the work on which they collaborated as partners in DPI's successful SEAFRONT project
- Ioniqa Technologies, spin-off of DPI and Eindhoven University of Technology, teams up with Unilever and Indorama Ventures to pioneer conversion of PET waste



## Research Programme Areas

Currently, focus on four programme areas:

- Polyolefins
- Performance Polymers
- Polymers for Oil & Gas
- Functional Polymers and Surfaces



## Research Programme: Polyolefins

- New partner in 2018: Dow Chemical
- 8 industrial partners in 2.0 programme
- Total 17 projects ongoing
- DPI 1.0 projects (6) running to plan

### CIRCULAR ECONOMY

- Successful workshop held in October



# Research Programme: Performance Materials

## PP 2.0

- 1 new industrial partner: Hutchinson
- 7 industrial partners in total
- 1 new academic partner: University of Ghent (B)
- 5 academic partners in total
- 6 current projects; 10 researchers
- 4 Calls for proposals in the pipeline

Projects (9) in 1.0 programme running to plan



## Research Programme: Polymers for Oil & Gas

- 1.0 programme continued into 2.0
- Same industrial partners as in 1.0: Shell and SNF
- 3 new projects started, 4<sup>th</sup> in preparation
- Currently 3 academic partners: Univ. of Twente (NL), Univ. of Bordeaux (F) and Clausthal Univ. of Technology (G)



## Research Programme: Functional Polymers and Surfaces

- 1.0 programme to end in August 2019
- 2018: further commercial development of Laser Speckle Imaging; 4 fast-track projects completed; 2 ongoing; 1 PhD project to continue until Aug 2019

### FUTURE OF THIS PROGRAMME AREA

- No new participations; programme to be on hold

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Challenges





## Today's theme: Circular Economy (CE)

- Much discussed topic, but few concrete steps
- Doing nothing is not an option
- Need to go beyond the current focus on CO<sub>2</sub> emission reduction
- Polymer producing industry must take proactive steps
- DPI is taking initiatives to encourage and coordinate actions



## Circular Economy

- Nov 2017: DPI meeting on plastics waste for stakeholders from diverse segments of polymer value chains
- Exchange platform established: PlasticsRevisited
- Oct 2018: DPI meeting with Polyolefins partners
  - Aim: programme to explore technical and economic feasibility of achieving full circularity of flexible plastic packaging
  - Three topics each in Mechanical and Chemical Recycling identified for research projects
- Current status: exploring possibilities for collaborative research projects



## Invited speakers

- Dr. Søren Bøwadt (European Commission)
- Dr. Just Jansz (Expertise Beyond Borders)
- Prof. Kim Ragaert (University of Ghent)
- Dr. Patricia Vangheluwe (PlasticsEurope)



**Thank you!**