



# Cellulose Pulp Packaging: Current and Emerging Technologies for Moulding and Functionalization

*Course organized by Danish  
Technological Institute*

**February 26th-27th  
2025, Copenhagen  
Denmark**

[Register here](#)

# Why attending?

The growing demand for sustainable packaging solutions has made the exploration of circular alternatives to traditional fossil-based plastics more crucial than ever. Fiber-based packaging offers a promising avenue to significantly reduce reliance on materials that are challenging to recycle. Currently, moulded pulp is predominantly used for products that do not require protection against oil, water, vapor, oxygen etc.

This course addresses the transformative potential of moulded fiber-based packaging by exploring how advancements in pulp composition, molding technology, and functional coatings can create effective barriers. By enhancing the protective capabilities of moulded pulp, we can expand its applicability across industries, paving the way for more environmentally friendly and sustainable packaging systems worldwide. Join us to be at the forefront of this exciting shift towards a more sustainable future in packaging!

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This two-day intensive course is designed for doctoral students and industry professionals who wish to deepen their understanding of pulp moulding and barrier technologies. Gain valuable insights and practical skills to advance your expertise and drive sustainable packaging solutions!

**Attendance fees**  
Industry: 2000 EUR  
Students: 1000 EUR

[Register here](#)

Danish Technological Institute



# Programme\* - Day 1

Time	Event	Speaker
8:30 – 9:00	Registration & Breakfast	
9:00 – 9:25	Welcome & Introduction	
9:25 – 10:55	3D forming of fibres: Technologies, trends & raw materials	Alexey Vishtal, MM Board & Paper Alexander Leo Bardenstein, DTI
10:55 – 11:15	Coffee break	
11:15 – 12:00	Moulded pulp in plastic substitution: Tailwinds from legislation	Alexey Vishtal, MM Board & Paper
12:00 – 13:00	Lunch	
13:00 – 13:45	Wet pulp moulding: impact of the process parameters on quality & productivity	Alexey Vishtal, MM Board & Paper Kenneth Kisbye, DTI
13:45 – 14:15	Tooling for wet pulp moulding - Basic design principles	Jesper Petersen, DTI Anders Kring Clausen, DTI
14:15 – 15:00	Overview of new production technologies from Asia	Daniel Kwok, Huilin Packaging
15:00 – 15:20	Coffee break	
15:20 – 16:50	The technical process and engineering behind dry molded fiber: from raw material to products	Sanna Fager, PulPac Kurt-Inge Landgren, Pulpac
16:50 – 18:20	Barrier requirements and characterization of functional barriers of molded pulp packaging	Yves Wyser, Nestlé Research
18:45 – 22:00	Dinner at DTI's restaurant	

\*The program is subject to updates or modifications without prior notice. Please refer to the course webpage regularly for the most current and accurate information.

# Programme\* - Day 2

Time	Event	Speaker
8:00 – 8:30	Breakfast & Coffee	
8:30 – 9:30	Functionalization of moulded pulp: An overview of technologies	Alexey Vishtal, MM Paper and Board Alexander Leo Bardenstein, DTI
9:30 – 10:15	Pulp additives for wet and dry moulding	Chuantao Zhu, Solenis
10:15 – 11:15	Dry Fiber Molding and Lamination: game changing technologies for the packaging industry	Christoph Stoye, Illig Packaging Solutions
11:15 – 11:45	Advanced digital pixel heating for deep-draw lamination	Daniel Diebold, Wattron GmbH
11:45 – 12:45	Lunch	
12:45 – 13:45	Water-based dispersion coatings for molded pulp packaging and spraying	Bernhard Kainz, Dow Deutschland
13:45 – 14:15	Surface functionalisation of moulded pulp using sol-gel	Claus Bischoff, DTI
14:15 – 15:15	Drying of liquid coatings on moulded pulp	Geert Dumortier, Ircon Solaronics
15:15 – 15:35	Coffee break	
15:35 – 16:05	Ultrasound assisted drying of moulded pulp and liquid coatings	Alexander Leo Bardenstein, DTI
16:05 – 16:35	Plasma processing and PECVD coatings	Yukihiro Kusano, DTI
16:35 – 16:45	Closing remarks	

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# Venue



The course will take place at Danish Technological Institute's facilities in Taastrup near Copenhagen.

- The spacious conference hall, accommodating 75 participants where most of the time will be spent, is equipped with a modern AV-system, properly lighted and ventilated.

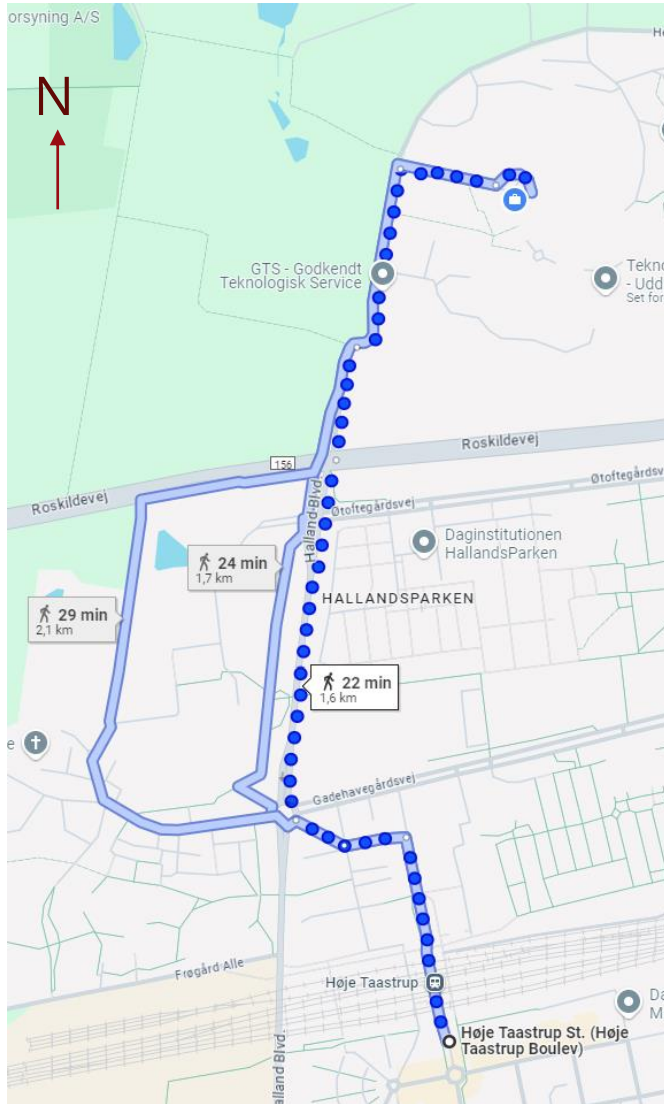


# How to get to DTI

If the following cases do not apply to you, it is reliable to navigate in Denmark using Google Maps and/or Apple Maps

- From the CPH Airport:
  1. Go to the train station at the airport.
  2. Board a Regional train headed west ward, these will include "RE" in the number on the departure board.
  3. Tickets can be bought in machines in the airport near the train station. (7 zones)
  4. Exit the train at Høje Taastrup Station (ca. 21 min)
- From Copenhagen central station (2 options exists):
  1. Board a Regional train headed west ward (these trains usually goes from track 8)
  2. Board the B-line from track 11-12 to the terminating station, Høje Taastrup Station
  - In both cases you need a ticket with 6 zones
- From Høje Taastrup Station (The local train station):
  - Busses – Two options
    - The bus 400S headed towards Lyngby St. Exit at the first stop after leaving the station, "Teknologisk Institut"
    - The bus 40E headed towards Skodsborg St. or DTU, Rævehøjvej. Exit at the first stop after leaving the station, "Teknologisk Institut"
    - Indicate you want to stop by pressing the "STOP" button in the bus.
  - Walking
    - The station is 2 km from the venue. Directions on the next page

# Walking to the venue from the station



From Høje Taastrup St. (Høje Taastrup Boulevard) 2630 Taastrup  
Head north on Høje Taastrup Blvd. (290 m)  
Turn left towards Skagensgade (87 m)  
Turn right and follow Skagensgade (5 m)  
5 m  
Turn left towards Halland Blvd. (80 m)  
80 m  
Take the third exit onto Halland Blvd. at the roundabout (500 m)  
Continue along Helgeshøj Alle (160 m)  
Turn right and follow Gregersensvej (280 m)  
Turn right (140 m)  
Turn left (75 m)  
Danish Technological Institute Building

Or follow the link: <https://maps.app.goo.gl/JThNT3CrtZFMevsw8>  
Departure: Høje Taastrup St.,  
Destination: Danish Technological Institute, Gregersensvej



# Accommodation possibilities in the vicinity

- Taastrup Park Hotel <https://www.tphotel.dk/>
- Thon Partner Hotel [https://www.thonhotels.com/da/hoteller/danmark/taastrup/thon-partner-hotel-  
hoje-taastrup/?gad\\_source=1&gclid=CjwKCAiAmMC6BhA6EiwAdN5iLf-  
0CnVGgiqh9JbQanEHq1w74xDvl95Cf4biKz8oMBwRPud9AICUIRoCmtQQAvD\\_BwE&gclsrc=aw.ds](https://www.thonhotels.com/da/hoteller/danmark/taastrup/thon-partner-hotel-<br/>hoje-taastrup/?gad_source=1&gclid=CjwKCAiAmMC6BhA6EiwAdN5iLf-<br/>0CnVGgiqh9JbQanEHq1w74xDvl95Cf4biKz8oMBwRPud9AICUIRoCmtQQAvD_BwE&gclsrc=aw.ds)
- Glostrup Park Hotel <https://booking.parkhotel.dk/V8Client/StartBooking.aspx>
- Scandic Glostrup <https://www.scandichotels.dk/hoteller/danmark/kobenhavn/scandic-glostrup>