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Innovations, Visions, & Technologies 2024 Science Day @ INVITE



Science Day @ INVITE 2024

Agenda – June 24, 2024 (Part 1)

DRAFT (Update 2024-06-13)



10:00	Welcome (5min)			
	10:05 -10:45 Key Note: Climate Action and Sustainability Accounting - Anna Katharina Meyer, Founder of Finding Sustainia			
11:00	Drug Delivery / DDiC <small>Drug Delivery Innovation Center</small> <ul style="list-style-type: none">Nanoscale Drug Delivery Systems – Concepts, Characteristics, and Challenges - Karsten Mäder, Uni HalleContinuously from granules to tablets – aspects of process design - Jens Bartsch, TU Dortmund	Lab Automation: Smart Automation <ul style="list-style-type: none">Industrial approaches to lab automation roadmap development – Charly Coulon, INVITEImplementation of a robot in a pharmaceutical lab environment – Marius Kling, INVITEDigital Transformation in the FutureLab.NRW: A Balancing Act between Research and Routine, IUTA – Max Jochums	Sustainability Research <ul style="list-style-type: none">Process-X: Digitalization as a crucial cornerstone for cross-industry sustainability contributions – Christina Oro Saavedra, NAMUR / Nils Weber, BayerCreating an Environment of Inclusion to drive Innovation and Sustainability in Pharma - Sesethu Dowiasch, Rockwell / ISPE Working Group - Women in Pharma	Poster Session 1 st floor DDIC Research Building
12:00	LUNCH			
13:00				

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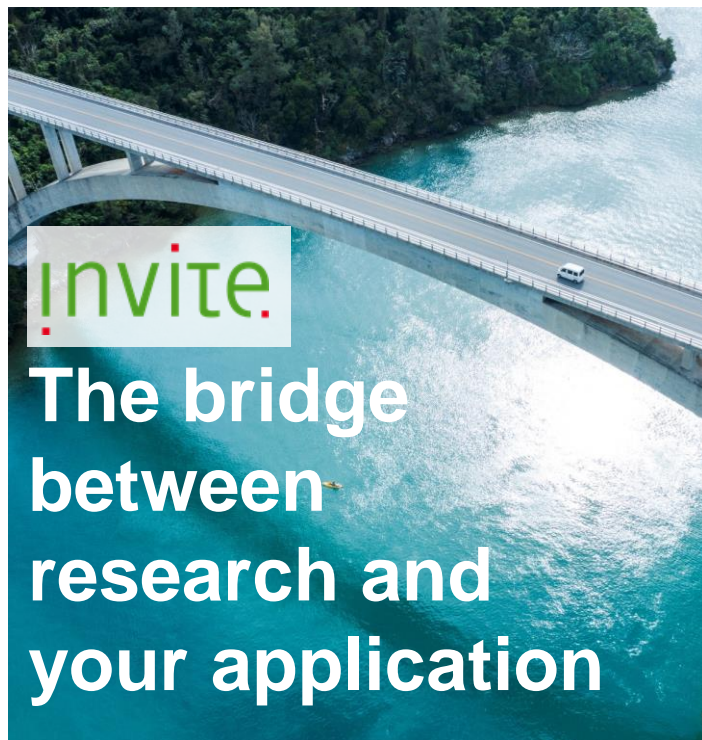
Agenda – June 24, 2024 (Part 2)

DRAFT (Update 2024-06-13)



13:00	LUNCH				
		Drug Delivery / DDiC <small>Drug Delivery Innovation Center</small>	Smart Automation	Sustainability Research	
14:00	<ul style="list-style-type: none">• Large language models for consuming experimental data at Bayer-CMC – Torben Cichon / Rakulan Sivanesapillai, Bayer• Ensuring sufficient quality of blister packages by modeling of heat sealing process – Anna Márton, INVITE• Development of a child-appropriate drug formulation for poorly soluble protease inhibitors – Marcel Kokott, NextPharma	<ul style="list-style-type: none">• Flexible Lab Robotics - Jan Wiggeshoff, INVITE• Innovative Crop Field Inspection using Walking Robots - Nisargkumar Panchal, INVITE• Energy-efficient & modular compressed air systems with MTP - Akshita Jain, INVITE	<ul style="list-style-type: none">• Degradation of Microplastics, Eva-Maria Teggers, INVITE• Adsorption of Active Ingredients in soil - Bram Geysels, INVITE• Application of Bioeconomy in agrochemical industry - Philipp Bertelmann, INVITE	Poster Session 1 st floor DDIC Research Building	
15:00	BREAK				
16:00	DDIC Research Labs: Introduction & Lab Tour – Tim Lillotte, INVITE	Robotic & Lab Automation – Demo Digital Showcase Center - Demo	<ul style="list-style-type: none">• Sustainable Monoblister Packaging - Jan Pech, INVITE• Heat integration network - Hadi Ghamlouch, INVITE		
	16:00 –16:30 Key Note: "Current trends in robotics and outlook on humanoid robots" - Dr.-Ing. Werner Kraus, Fraunhofer Institute for Manufacturing Engineering & Automation				

About INVITE



INVITE is a **Public-private partnership** of Bayer, TU Dortmund University, and HHU Düsseldorf founded in 2010.

Experts bridge the remaining gap between academic insights and industrial applications. INVITE is the

- // **research center** for innovative production technologies with a focus on smart automation, formulation technology and sustainability research.
- // leads the **Drug Delivery Innovation Center**, **DDiC** Drug Delivery innovation Center, an **open consortium** between partners from the pharmaceutical industry, machine and service providers, and academia.

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