

# Schedule Winterschool

## Week 1

PROPOSED TIMING	August 22, 2022	August 23, 2022	August 24, 2022	August 25, 2022	August 26, 2022
TIME	Day 1 Activities @ROBOHOUSE	Day 2 Activities (@WUR)	Day 3 Activities (@ROBOHOUSE)	Day 4 Activities (@ROBOHOUSE)	Day 5 Activities (@ROBOHOUSE)
9:00-9:30		Travel to WUR by bus	AI for Advanced Materials (TUD)	Soft Smart Materials & Textiles (TUD-IO) <i>Sepideh Ghodrat</i>	Soft Wearable Robotics (UT) <i>Saivimal Sridar</i>
9:30-10:00		Travel to WUR by bus	Advanced 3D-printed Materials (TUD) <i>Mohammad Mirzaali</i>	Untethered Soft Robotics (UT) <i>Venkat Kalpathy</i>	Soft Muscles and Heart Modeling (TUD) Mathias Peirlink
10:00-10:30		Travel to WUR by bus	TBD	Soft Sensing (TUD) <i>Michael Wiertelwski</i>	Teleoperation and Control (KUL) <i>Emmanuel van der Poorten</i>
10:30-10:45		Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:45-11:15		Soft Biology - Insect Adhesion (WUR) <i>Guillermo Amador</i>	Fabrication of Soft Robots (TUD) <i>Zjenja Doubrovski</i>	Soft Pneumatic Actuators (AMOLF) <i>Bas Overvelde</i>	Soft Gripping (WUR) <i>Ali Leylavi Shoushtari</i>
11:15-11:45		Soft Biology - Flying Animals (WUR) <i>Florian Muijres</i>	Fabrication of Soft Robots (UT) <i>Ali Sadeghi</i>	Soft Robot Locomotion (SDU) Saravana Babu	Soft Robotics Simulation (MU/TUD) <i>Guoxin Fang</i>
11:45-1:15	Lunch & Walk-in	Lunch Break	Lunch Break	Lunch Break	Lunch Break
13:15-13:45	Welcome Meeting <i>Aimée Sakes &amp; Rob Scharff</i>	Bio-Inspired Soft Transport (TUD) <i>Aimée Sakes</i>	Soft Imaging (ErasmusMC) <i>Gijs van Soest</i>	Control of Soft Robots (TU/e) <i>Irene Kuling</i>	Control of Soft Robots (TUD) <i>Cosimo della Santina</i>
13:45-14:15	Welcome Meeting <i>Aimée Sakes &amp; Rob Scharff</i>	TBD	Living materials (TUD-IO) <i>Jiwei Zhou</i>	Bio-inspired Soft Surfaces (WUR) <i>Joshua Dijkstra</i>	Topology Optimization (TUD) <i>Jun Wu</i>
14:15-14:30	Break	Break	Break	Break	Travel to Boerhaave Museum by train
14:30-15:00	Inspirational KEYNOTE lecture <i>Adam A. Stokes (Uni. Edinburgh)</i>	Walk to the Tour Starting Point	Practicum 3D-printing (TUD-IO) <i>Rob Scharff &amp; Jun Wu</i>	Practicum Silicone casting (TUD-IO) <i>Rob Scharff</i>	Travel to Boerhaave Museum by train
15:00-15:30		Tour of WUR Facilities <i>Guillermo Amador</i>	Practicum 3D-printing (TUD-IO) <i>Rob Scharff &amp; Jun Wu</i>	Practicum Silicone casting (TUD-IO) <i>Rob Scharff</i>	Travel to Boerhaave Museum by train
15:30-15:45	Break	Break	Break	Break	Break
15:45-16:15	Introduction to the Case Studies	Tour of WUR Facilities <i>Guillermo Amador</i>	Practicum 3D-printing (TUD-IO) <i>Rob Scharff &amp; Jun Wu</i>	Practicum Silicone casting (TUD-IO) <i>Rob Scharff</i>	Tour of Boerhaave Museum
16:15-16:45	Drinks at Robohouse	Tour of WUR Facilities <i>Guillermo Amador</i>	Practicum 3D-printing (TUD-IO) <i>Rob Scharff &amp; Jun Wu</i>	Practicum Silicone casting (TUD-IO) <i>Rob Scharff</i>	Tour of Boerhaave Museum
16:45-17:15	Drinks at Robohouse	Tour of WUR Facilities <i>Guillermo Amador</i>	Practicum 3D-printing (TUD-IO) <i>Rob Scharff &amp; Jun Wu</i>	Practicum Silicone casting (TUD-IO) <i>Rob Scharff</i>	Tour of Boerhaave Museum
17:15-18:00	Drinks at Robohouse	Travel to TUD by bus	Practicum 3D-printing (TUD-IO) <i>Rob Scharff &amp; Jun Wu</i>	Practicum Silicone casting (TUD-IO) <i>Rob Scharff</i>	End of Week 1 Drinks in Leiden

## Week 2

PROPOSED TIMING	August 29, 2022	August 30, 2022	August 31, 2022
TIME	Day 6 Activities (@ROBOHOUSE)	Day 7 Activities (@FESTO)	Day 8 Activities (@FESTO)
9:00-9:30	Soft Sensing and Gripping (IIT) <i>Rob Scharff</i>	TBD	DEAM Start-Up Lecture <i>Jules Scheltes</i>
9:30-10:00	Large Scale Soft Robots (TUD) <i>Jovana Jovanova</i>	Start-Up Lecture Roliner (UK, IC) <i>Ugur Tanriverdi</i>	Materialise 3D-print Lecture <i>Diana Skopina</i>
10:00-10:30	Human-Robot Interaction (TUD) <i>David Abbink</i>	McKibben Actuators (JPN, TiTech) <i>Koichi Suzumori</i>	DORC Lecture <i>Marta Scali</i>
10:30-10:45	Coffee Break	Coffee Break	Coffee Break
10:45-11:15	Control of Soft Robots (TUD) <i>Pablo Borja Rosales</i>	Tour Festo Facilities <i>Jan Koudijzer</i>	Case Study 1 & 2
11:15-11:45	Soft Robotic Actuators (IC) <i>Majid Taghavi</i>	Tour Festo Facilities <i>Jan Koudijzer</i>	Case Study 1 & 2
11:45-1:15	Lunch Break	Lunch Break	Lunch Break
13:15-13:45	Origami Engineering (IC) <i>Sebastien Callens</i>	Case Study 1 & 2	Case Study 1 & 2
13:45-14:15	Bio-inspired Design (TUD) <i>Paul Breedveld</i>	Case Study 1 & 2	Case Study 1 & 2
14:15-14:30	Break	Break	Break
14:30-15:00	Practicum Origami (TUD-3mE) <i>Sebastien Callens &amp; Ali Sadeghi</i>	Case Study 1 & 2	Case Study 1 & 2
15:00-15:30	Practicum Origami (TUD-3mE) <i>Sebastien Callens &amp; Ali Sadeghi</i>	Case Study 1 & 2	Case Study 1 & 2
15:30-15:45	Break	Break	Break
15:45-16:15	Practicum Origami (TUD-3mE) <i>Sebastien Callens &amp; Ali Sadeghi</i>	YES! Delft TOUR	Case Study 1 & 2
16:15-16:45	Practicum Origami (TUD-3mE) <i>Sebastien Callens &amp; Ali Sadeghi</i>	Julian Jagtenberg (SOMNOX)	Case Study 1 & 2
16:45-17:15	Practicum Origami (TUD-3mE) <i>Sebastien Callens &amp; Ali Sadeghi</i>	YES! Delft TOUR	Case Study 1 & 2
17:15-18:00		YES! Delft TOUR	