



2D-MATURE Summer School #3

June 25th, 2026 Symposium

Time	Program	Speaker	Estimated duration
08:40 a.m.	Arrival	-	15 min
09:00 a.m.	Coffee & connect	-	60 min
10:00 a.m.	MOCVD Technology for Wafer-Scale Growth of 2D Materials	Jan Mischke (AIXRON SE)	30 min
10:30 a.m.	Discussion	all	10 min
10:40 a.m.	<i>Coffee break</i>	-	10 min
10:50 a.m.	Atom-thick silicon ("silicene"): an ab initio view from early promises to the quest for a quasi-freestanding, single-crystal material	Guido Fratesi (Università degli Studi di Milano)	45 min
11:35 a.m.	Discussion	all	15 min
11:50 a.m.	<i>Lunch break</i>	-	70 min
01:00 p.m.	Scaling up production of advanced materials ...from industry's point of view	Bjørn Gading Solemsli (LayerOne)	30 min
01:30 p.m.	Discussion	all	10 min
01:40 p.m.	<i>Coffee break</i>	-	10 min
01:50 p.m.	Tailored Growth of Transition Metal Dichalcogenide Monolayers for Electronics and Photonics	Andrej Turchanin (University of Jena)	45 min
02:35 p.m.	Discussion	all	15 min

June 26th, 2026 Symposium

Time	Program	Speaker	Estimated duration
08:45 a.m.	Arrival	-	15 min
09:00 a.m.	Black Semi: Development of a reliable integrated graphene photonics platform	Cedric Huyghebaert (Black Semiconductor GmbH)	30 min
09:30 a.m.	Discussion	all	10 min
09:40 a.m.	<i>Coffee break</i>	-	10 min
09:50 a.m.	Opportunities of halogen-based gas-phase reactants during chemical vapor deposition of transition metal dichalcogenides	Benjamin Groven (Interuniversity Microelectronics Centre)	45 min

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10:35 a.m.	Discussion	all	15 min
10:50 a.m.	<i>Coffee break</i>	-	10 min
11:00 a.m.	Large-Area Graphene Oxide Composite Membranes for Novel Membrane Dehumidification Systems	Matt Heuft (Evercloak)	30 min
11:30 a.m.	Discussion	all	10 min
11:40 a.m.	<i>Lunch break</i>	-	80 min
01:00 a.m.	tba	Max Lemme (RWTH Aachen University)	45 min
01:45 a.m.	Discussion	all	15 min
02:00 p.m.	Closing Remarks	Gerd Bacher & Michael Pope	15 min