MONDAY, AUGUST 26, 2024

Time	Theme	Intervention	Site
08:30 – 09:00	**Arrival**	Welcome Coffee	**TU/e**
09:00 – 09:15	**Opening Ceremony**	Welcome Note **Prof. Aida Todri-Sanial**, Summer School Scientific Director	
09:15 – 09:20		**Robert-Jan Smits**, President TU/e	
09:20 – 09:30		**Peter Wennink** or new CEO ASML	
09:30 – 10:30		Keynote 1 from ASM	
10:30 – 10:45		Break	
10:45 – 11:45		Keynote 2 from NXP	
11:45 – 12:30		**Panel Discussion**: tbd Moderated by: **Prof. Martijn Heck**, TU/e Panelists: tbd, SmartPhotonics tbd, BESI tbd, imec tbd, Fraunhofer **Naomi Verstraeten**, Brainport	
12:30 – 13:30	**Break**	Lunch	
13:30 – 14:30	**Challenge**	Challenge Introduction and Team Creation **Dr. Shihab Al-Daffaie**, TU/e	
14:30 – 15:15	**Lecture 1**	Invited Speaker tbd, IMEC	
15:15 – 15:30	**Break**		
15:30 – 16:30	**Lecture 2**	Invited Speaker tbd, Fraunhofer	
16:30 – 17:30	**TU/e**	TU/e Lab Visits	
19:00 – 21:00	**Social Event**	Dinner & Networking	

TUESDAY, AUGUST 27, 2024

Time	Theme	Interventions	Site
07:45	**In transit**	Pick up at Flux and bus ride to ASML	**ASML**
08:15		Arrival at ASML at Building 8	
08:30 – 09:00		Walk to Bldg 7/Check-in/Coffee/Gathering	
09:00 – 09:30	**Lecture 3**	tbd, ASML Equipment Scaling and Moore's Law at Twinscan Auditorium	
09:30 – 11:00	**Lecture 4**	tbd, ASML Process/Fabrication/Tools – System Engineering at Twinscan Auditorium	
11:00 – 11:30	**Break**	Coffee Break – Meet the recent hires next to Twinscan Auditorium	
11:30 – 12:30	**Lecture 5**	**Dr. Vina Faramarzi**, ASML Two-dimensional materials for future electronic circuits & VLSI, at Twinscan Aud.	
12:30 – 13:30	**Break**	Lunch at Plaza	
13:30 – 14:30	**Group Work**	Team Building for Challenge Project Students time to work on project	
14:30 – 16:00	**Lecture 6**	tbd, ASM	
16:00 – 16:30	**Break**	Coffee Break next to Twinscan Auditorium	
16:30 – 17:30	**Tour**	ASML Visit Experience Center Tour	
17:30 – 17:45	**Wrap up**	Wrap up, at Twinscan Auditorium	
17:45 – 18:00	**Walk**	Departure – Walk to Building 8	
18:00 – 19:00	**In transit**	Bus ride to Flux building	

WEDNESDAY, AUGUST 28, 2024

Time	Theme	Intervention	Site
09:00 – 09:30	**Foundries and Devices**	Keynote: **Glavine Yeh**, TSMC Europe Title: TSMC Technologies Leadership	**TU/e Flux 1.02**
09:30 – 10:30	**Lecture 7**	Tbd, NYCU	
10:30 – 10:45	**Break**	Coffee Break	
10:45 – 11:45	**Lecture 8**	Tbd, NTU	
11:45 – 12:30	**Group Work**	Students time to work on projects	
12:30 – 13:30	**Break**	Lunch	
13:30 – 14:00	**In transit**	Bus ride to Smart Photonics	
		Check-in/Coffee/Gathering	**Smart Photonics, HTC**
	Electronics & Photonics		
14:00 – 15:00	**Lecture 9**	Smart Photonics **Luc Augustin**, CTO Title: Manufacturing of photonic integrated circuits – a pure play foundry model	
15:00 – 16:00	**Lecture 10**	**Prof. Martijn Heck**, TU/e Convergence of electronics and photonics – opportunities and challenges	
16:00 – 17:00	**Tour**	Smart Photonics Daily life in the clean room	
17:00 – 17:30	**In Transit**	Bus ride back to Flux	

THURSDAY, AUGUST 29, 2024

Time	Theme	Intervention	Site
07:45	**In transit**	Pick up at Flux and bus ride to NXP	**TU/e**
08:15		Arrival at NXP	**HTC**
08:30 – 09:00		Check-in/Coffee/Gathering	**De Boerderij**
09:00 – 09:30	**Design and Systems**	General NXP Introduction/Welcome Talk **Maurice Geraets**, NXP R&D Director	
09:30 – 11:00	**Lecture 11**	NXP Lectures -Three Short Lectures (30') • Designing analog in advanced nodes by **Arnoud van der Wel** • Radar solutions by **Alessio Filippi** • Automotive Systems by **Brian de Bart**	
11:00 – 11:20	**Break**	Coffee Break	
11:20 – 12:00	**Lecture 12**	Invited Speaker	
12:00 – 13:00	**Break**	Lunch	
13:00 – 14:00	**Group Work**	Team Building for Challenge Project Students time to work on project	
14:00 – 15:00	**Lecture 13**	Invited Speaker	
15:00 – 15:15	**Break**	Coffee Break	
15:15 – 15:45	**Lecture 14**	Invited Speaker	
15:45 – 16:30	**Panel Discussion**	Moderator: **Prof. Marion Matters-Kammerer,** TU/e Panelists:	
16:30 – 17:15	**Tour & Break**	NXP Visit – Group 1 Group 2 – break and networking	**NXP-HQ HTC60**
17:15 – 18:00	**Tour & Break**	NXP Visit – Group 2 Group 1 – break and networking	
18:00 – 20:00	**Social Event**	Buffet Dinner at High-Tech Campus (?)	**Lounge**
20:00 – 20:30	**In transit**	Bus ride back to Flux building, TU/e	

FRIDAY, AUGUST 30, 2024

Time	Theme	Interventions	Site
09:00 – 09:45	**Lecture 15**	Invited Speaker – Axelera?	**TU/e Flux 1.02**
09:45 – 10:00	**Break**	Coffee Break	
10:00 – 10:45	**Lecture 16**	Invited Speaker	
10:45 – 11:00	**Break**	Coffee Break	
11:00 – 11:45	**Lecture 17**	Invited Speaker	
11:45 – 12:00	**Break**	Coffee Break	
12:00 – 12:30	**Lecture 18**	Invited Speaker	
12:30 – 13:30	**Break**	Lunch	
13:30 – 15:30	**Group Work**	Preparations of Team Presentations Team Presentation Pitches	
15:30 – 16:00	**Break**	Coffee Break	
16:00 – 17:00	**Student Presentations**	Team Presentation Pitches Chair: **Dr. Shihab Al-Daffaie**, TU/e Jury Participation: - Tbd - Tbd - Tbd - Tbd - Tbd - Tbd -	
17:00 – 18:00	**Closing Ceremony**	Prize Awards and Giveout of Certificates Closing Ceremony: - **Prof. Silvia Lenaerts**, Rector Magnificus, TU/e - **Prof. Lin-Lin Chen**, TU/e - Tbd - tbd - **Prof. Aida Todri-Sanial**, TU/e Invited: - Tbd - Tbd - Tbd - Tbd -	
18:00 – 19:00	**Drinks & Snacks**		**Vide**