

Sustainability Summer School			Please note varying durations of activities			Phone Numbers	
HKA + OST + OSU			Final DRAFT - changes may still occur			Jiyan	+4917643451215
Project Leaders			Date of this version			Michael	+4915114470230
Prof. Dr. Michael Kauffeld and Dr. Mihaela Dudita Kauffeld			21.08.2026			Mihaela	+40770512590 (Romania country code)
Sunday		06.09.2026		Climate Arena	Climate Change		
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks	
12:00 - 13:00	Jiyan Akyol	HKA	Bus drive	Transport from Youth Hostel Karlsruhe to Klima Arena Sinsheim		BUS DEPARTURE 12:00	
13:00 - 17:00	Michael Kauffeld	HKA	Climate Change	Climate Change	Klima Arena	https://klima-arena.de/	
Around 15:00	Coffee and cake			Coffee Break	Klima Arena		
17:00 - 18:00	Michael Kauffeld	HKA	Bus Drive	Return to Karlsruhe			
18:30 - 20:00	Michael Kauffeld	HKA	Dinner	Joint dinner at Restaurant "Treffpunkt1721", Adenauerring 32, 76131 Karlsruhe		to be confirmed	
Monday		07.09.2026		Sustainability	Sustainability		
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks	
08:00 - 08:30	Jiyan Akyol	HKA	Registration	Group work assignment / enrolment	Foyer in front of F316	Croissant, sandwich, coffee, tea, juice	
08:30 - 08:40	Franz Quint + Michael Kauffeld	HKA	Welcome	Welcome on behalf of HKA + sustainability at HKA	F316		
08:40 - 08:45	Andrea Bühler	City Karlsruhe	Welcome	Welcome from city of Karlsruhe, Sustainable projects in Karlsruhe	F316		
		City + Technology Region Karlsruhe			F316		
08:45 - 09:30	Andrea Bühler + Felix Zechiel		Lecture	Sustainable project in and around Karlsruhe	F316		
09:30 - 09:50				Coffee Break			
09:50 - 10:35	Henrik Nordborg	OST	Lecture	Global Climate Compensation	F316		
10:35 - 11:20	Josef Noll	University of Oslo	Lecture	From centralised to decentralised energy provision - an inclusive societal transition	F316		
11:20 - 11:30				Coffee Break			
11:30 - 12:15	Philipp Petry	Impact Strategies GmbH		Sustainable AI	F316		
12:15 - 13:00	Shaina Jain	University of Portsmouth London	Lecture	Reimagining Agriculture: Sustainable, Circular, and Resilient Food Systems	F316		
13:00 - 14:00	Mensa			Lunch break			
14:00 - 14:45	Regina Kratt	RawTwist GmbH	Workshop	Sustainable, micronutrient-rich diet and ice cream	F316	ice cream workshop	
14:45 - 17:00	Jiyan Akyol	City Tour	Team building	Treasure hunt through Karlsruhe in groups à 6 students	City of Karlsruhe		
18:00 - 21:00	Jiyan Akyol	HKA	Get together	Lab visits IKKU + Barbecue at Fireplace at HKA + HKA micro brewery	L015		
Tuesday		08.09.2026		Buildings	Refrigeration, Heat Pumps, Thermal Storage		
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks	
08:00 - 08:45	Michael Kauffeld	HKA	Lecture	PFAS - the next big global challenge	F316		
08:45 - 09:30	Constanze Bongs	HKA	Lecture	Heat pumps as gamechanger in global decarbonisation	F316		
09:30 - 09:50				Coffee Break			
09:50 - 10:35	Michael Kauffeld	HKA	Lecture	Sustainable Refrigeration, Air Conditioning and Heat Pump Technology	F316		
10:35 - 11:20	MD Mahfuzur Rahman	OST	Lecture	SophIA Systems	F316		
11:20 - 11:30				Break			
11:30 - 12:15	Tobias Hirsch	Ewerlence	Lecture	Mega size heat pumps	F316		
12:15 - 13:00	Leon Brendel	OST	Lecture	Industrial Heat Pumps	F316		
13:00 - 13:30	Michael Kauffeld + Jiyan Akyol	HKA	Walk + Talk	Walk through the castle gardens to Mensa Adenauerring 7	outdoor		
13:30 - 14:15	Michael Kauffeld + Constanze Bongs			Lunch break at KIT Mensa, Vielmetter Hall	Mensa	Coupons for everyone, sitting in Annex close to update	
14:30 - 16:00	Constanze Bongs + Michael Kauffeld	HKA	Technical visit	Visit refrigeration system at Mensa KIT / RoofKIT	Adenauerring 7	two groups of 30 students each alternate between Mensa and RoofKIT	
14:30 - 16:00		HKA	Technical visit	Visit sustainable building RoofKIT / refrigeration system at Mensa	KIT Campus South	two groups of 30 students each alternate between Mensa and RoofKIT	
16:00 - 16:30				Drive to LTC			
16:30 - 18:00	Philipp Linder + someone from Secon	LTC	Technical visit	Energy plus building and heat pumps	LTC	LTC – Linder Technology Campus Wilhelm-Schickard-Straße 9 76131 Karlsruhe	
18:00 - 19:30	all		Dinner	Dinner in Cantina of LTC	LTC		
from 19:30	all			walk, NextBike, E!-Scooter or tram back to Youth Hostel			
Wednesday		09.09.2026		Water	Water and PFAS		
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks	
08:00 - 11:30	KNW (Competence Center for Sustainability Workshops)	HKA	Workshop	1. The Circular Economy Collage (F109) 2. The Digital Collage (F316) 3. The Mobility Fresco (IO Tech Café) 4. The Planetary Boundaries Fresco (F109) 5. The Biodiversity Collage (F109) 6. The New Narratives Collage (F110) 7. The 2 tonnes / Habitability workshop (F110) 8. Our Sustainable Lives (F108) 9. The Supply Chain Game (F316)	F108, F110, F109, F316 and IO Tech Café		
whenever time permits	Jiyan Akyol	HKA	Coffee Break				
11:45 - 12:30	Ursula Schön-Herrmann	DAA	Workshop	How to achieve and maintain employability in an ever faster changing environment	F316		
12:30 - 13:30	Michael Kauffeld	HKA	Drive to Rastatt	Lunch break in the bus	Bus	https://www.stadtwerke-baden-baden.de/de/aktuelles/meldungen/Trinkwasser-Special.php	
13:40 - 15:10	Michael Kauffeld		Excursion	Rastatt PFAS		30 students at Wasserwerk Sandweiler, 30 students at Landseehof	
14:30 - 15:10	Michael Kauffeld		Excursion	Water works Sandweiler	Baden Baden		
15:10 - 15:20	Bus			Exchange groups			
15:20 - 15:50	Landseehof Haueneberstein			Coffee Break			
15:50 - 16:00	Bus			Exchange groups			
16:00 - 16:45	Michael Kauffeld		Excursion	Rastatt PFAS	Baden Baden	https://www.landseehof.de/	
16:45 - 17:30	Michael Kauffeld		Excursion	Landseehof Haueneberstein	Baden Baden	30 students at Wasserwerk Sandweiler, 30 students at Landseehof	
17:30 - 18:15			Relax	Drive by coach bus from Walachischer Kessel			
18:15 - 23:00	Cristian Cirstea	Walachischer Kesse	Dinner	Romanian evening at Walachischer Kessel incl. Dinner and unikat concert	Karlsruhe		
Thursday		10.09.2026		Energy	Renewable Energy		
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks	
08:00 - 08:45	All	HKA	Group work	work in the groups	F316		
08:45 - 09:30	Mihaela Dudita-Kauffeld	OST	Lecture	Solar Energy - the eternal energy source	F316		
09:30 - 09:50				Coffee Break			
09:50 - 10:35	Laura Comella + Jonathan Larochelle	HKA	Lecture	The Environmental Cost of Saving Paper: A Case Study of Electronic Shelf Labels	F316		
10:35 - 11:20	Maurice Kettner	HKA	Lecture	Ammonia as hydrogen carrier	F316		
11:20 - 11:30				Break			
11:30 - 12:15	Daniel Silsbee	Advansor	Lecture	Sustainability in heating and cooling with CO2	F316		
12:15 - 13:00	Dustin Ochmann	HKA	Lecture	Lilon batteries	F316	PhD of Olivier Schecker	
13:00 - 14:00	Michael Kauffeld	HKA		Lunch break in bus	Bus		
14:00 - 15:30	Michael Kauffeld	HKA	Excursion	Visit KIT Campus North Energy Lab + atmospheric research	KIT Campus North		
15:30 - 16:00				Coffee break	KIT Campus North		
16:00 - 16:45	Michael Kauffeld	HKA	Excursion	Visit KIT Campus North Energy Lab + atmospheric research	KIT Campus North		
16:45 - 17:00	Michael Kauffeld	HKA	Group Work	Drive to TWK			
17:00 - 18:00	Michael Kauffeld	HKA		Sustainable Building + Refrigeration Technology	TWK		
18:00 - 18:30	all		drive back to Restaurant	Bus			
18:30 - 20:30	all		Dinner	Dinner at Café Bleu			
Friday		11.09.2026		Climate Disaster	Global Warming	Please NOTE	Different time slots
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks	
08:00 - 08:25	Group 1		Workshop	1. Designing a Net-Zero Energy Building	F316	done by the students	
08:25 - 08:50	Group 2		Workshop	2. Low-Impact Occupant-Centric Buildings	F316	done by the students	
08:50 - 09:15	Group 3		Workshop	3. Water-Energy Nexus in Hospitals and Communities	F316	done by the students	
09:15 - 09:30				Coffee break			
09:30 - 09:55	Group 4		Workshop	4. Circular Economy for Building Materials	F316	done by the students	
09:55 - 10:30	Group 5		Workshop	5. Solar-Powered Cooling for Food and Medicine	F316	done by the students	
10:30 - 10:55	Group 6		Workshop	6. Urban Agriculture and Circular Food Systems	F316	done by the students	
10:55 - 11:20	Group 7		Workshop	7. The role of bees in a sustainable future	F316	done by the students	
11:20 - 11:30				Coffee break			
11:30 - 11:55	Group 8		Workshop	8. Sustainable Mobility for Campuses and Cities	F316	done by the students	
11:55 - 12:20	Group 9		Workshop	9. Community Engagement and Behavioral Change for Sustainability	F316	done by the students	
12:20 - 12:45	Group 10 or 11		Workshop	10. Resilient Cities in the Face of Climate Change OR Sustainable digital transformation	F316	done by the students	
13:00 - 14:00				Lunch break	Mensa		
14:00 - 15:00	Olivier Schecker, Maurice Kettner	HKA	Workshop	Build up the Climate Fresk in a team		4-8 participants per team	
15:00 - 15:45	Olivier Schecker, Maurice Kettner	HKA	Workshop	Build up the Climate Fresk in a team		4-8 participants per team	
15:45 - 16:00				Coffee break		Outdoor, if the weather is nice	
16:00 - 16:45	Olivier Schecker, Maurice Kettner	HKA	Workshop	Summarize what you have learned and choose a title for your fresk		4-8 participants per team, OHNE Publikum	
16:45 - 17:30	Olivier Schecker, Maurice Kettner	HKA	Workshop	See where we stand and share feelings, thoughts, ideas and actions to create a better future		4-8 participants per team, OHNE Publikum	
17:30 - 18:30	Michael Kauffeld	HKA	Closing	Hand out Certificates + get feedback from students		Wrap up - feedback on summer school	
18:30 - 19:00	Michael Kauffeld	HKA		Walk and Talk to restaurant			
19:00 - 20:30	all			Dinner at Youth hostel OR HKA Cafeteria (if the cafeteria is open)			
20:30 - 23:00	all	Castle	Fun	Schlosslichtspiele		https://www.schlosslichtspiele.info/en/	

Group work	see 'Timetable online sessions' for a complete list of projects - please select YOUR project - 6 members on each team; only one team for every subject	
on-campus week	Group 1	1. Designing a Net-Zero Energy Building Concept for a small-scale building that achieves net-zero energy through passive design.
	Group 2	2. Low-Impact Occupant-Centric Buildings Building solutions that enhance indoor comfort (thermal, acoustic, visual) while minimizing
	Group 3	3. Water-Energy Nexus in Hospitals and Communities Integrated systems (solar desalination, rainwater harvesting, greywater reuse) for
	Group 4	4. Circular Economy for Building Materials Strategies to reuse, recycle, or replace high-carbon materials (e.g., cement, plastics).
	Group 5	5. Solar-Powered Cooling for Food and Medicine Scalable, low-cost cooling solutions for reducing food waste and ensuring medical cold
	Group 6	6. Urban Agriculture and Circular Food Systems Rooftop or vertical farming concepts powered by renewables, with composting and water
	Group 7	7. The role of bees in a sustainable future Is honey sustainable? The role of bees in a sustainable future (exploring pollination).
	Group 8	8. Sustainable Mobility for Campuses and Cities Integrated mobility plan (walking, cycling, electric micro-mobility, and public transport) for
	Group 9	9. Community Engagement and Behavioral Change for Sustainability Campaign or toolkit to promote sustainable lifestyles (energy savings, waste reduction, water
	Group 10	10. Resilient Cities in the Face of Climate Change Adaptation strategies for cities exposed to heatwaves, flooding, or water scarcity, using
	Group 11	11. Sustainable digital transformation Digital tools like AI, smart grids, and digital twins can boost efficiency, reduce resource