

Sustainability Summer School		https://www.h-ka.de/en/3s	Please note varying durations of activities		Phonenumber	+4917643451215
HKA + OST + TUB		Final DRAFT - changes may still occur			Jyan	+4915114470230
Project Leaders		Date of this version			Michael	+40770512590 (Romania country code)
Prof. Dr. Michael Kauffeld and Dr. Mihaela Dudita Kauffeld		29.08.2024			Mihaela	

Monday		09.09.2024		Sustainability			
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks	
08:00 - 08:25	Franz Quint + Michael Kauffeld	HKA	Lecture	Welcome on behalf of HKA + sustainability at HKA	F110		
08:25 - 08:45	Andrea Bühler	City Karlsruhe	Lecture	Welcome from city of Karlsruhe, Sustainable projects in Karlsruhe	F110		
08:45 - 09:30	André Podleisek	OST	Workshop	Creating Value with Circular Solutions or the world is falling apart - can beer safe us?	F110		
09:30 - 09:50				Coffee Break			
09:50 - 10:35	Henrik Nordborg	OST	Lecture	Global Climate Compensation	F110		
10:35 - 11:20	Holger Perlitwiz	HKA	Lecture	Green Finance	F110		
11:20 - 11:30				Coffee Break			
11:30 - 12:15	Robert Szilinski	Esentri AG	Lecture	Sustainable digital transformation	F110		
12:15 - 13:00	Corinna Eussner + A. Bühler	HKA/Wifö	Lecture	InspirING@ / Hackathon Teenagers - involving the young generation	F110		
13:00 - 14:00	Mensa			Lunch break			
14:00 - 17:00	Frank Hoffmann	Wildpfade	Team building	Forrest Games Teambuilding	Waldschule	https://www.wildpfa.de/	
17:00 - 17:30	all		walk back to HKA	Walk back to HKA	Castle gardens		
17:30 - 20:30	Tunay Özcan	HKA	Get together	Barbecue at Fireplace at HKA + HKA micro brewery	LI015		

Tuesday		10.09.2024		Ice		Refrigeration, Heat Pumps, Thermal Storage	
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks	
08:00 - 08:40	Michael Kauffeld	HKA	Lecture	Sustainable refrigeration and heat pump technology	F110	changed time slots compared to other days	
08:40 - 09:05	Emmerich Tempfli	Güntner	Lecture	Sustainability in refrigeration and heat pumps: Optimizing performance in frosty conditions	F110	changed time slots compared to other days	
09:05 - 09:30	Oliver Schmid	HKA	Lecture	SophIA refrigeration systems	F110	changed time slots compared to other days	
09:30 - 09:50				Coffee Break			
09:50 - 10:35	Andrea Voigt	Danfoss	Workshop	Sustainability in heating and cooling - beyond the usual suspects	F110		
10:35 - 11:20	Kanchan Bohara	OST	Lecture	Life cycle assessment with an example from SophIA	F110		
11:20 - 11:30				Break			
11:30 - 12:30	Mihaela and Michael Kauffeld	OST / HKA	Lecture	Energy storage	F110		
12:30 - 13:00	All		Walk	Walk to Mensa KIT, Adenauerring 7	outdoor		
13:00 - 14:00	Studierendenwerk Karlsruhe			Lunch break at KIT Mensa	Mensa	Coupons for everyone, sitting in Annex close to update	
14:00 - 15:00	Michael Kauffeld	HKA	Excursion	Visit refrigeration system at Mensa KIT	Adenauerring 7		
15:00 - 15:30	All		Walk	Walk back from Mensa KIT to HKA	outdoor		
15:30 - 16:00				Coffee break			
16:00 - 17:30	Michael Kauffeld + Tunay Ozcan	HKA	Laboratory	Exercises in Refrigeration & Heat Pump Lab	LI043		
17:30 - 19:00	all		Relax	Dinner	Youth Hostel	Moltkestraße 24, 76133 Karlsruhe	
19:00 - 20:30	Michael Kauffeld		Karlsruhe	Sightseeing Karlsruhe + BREEZE cooling	city	end at Schloss Lichtspiele - Light festival Karlsruhe	

Wednesday		11.09.2024		Fire		Electro mobility, electrochemical storage, lithium	
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks	
08:00 - 08:45	Karsten Pinkwart	HKA	Lecture	Hydrogen	F110		
08:45 - 09:30	Maurice Kettner	HKA	Lecture	Ammonia as hydrogen carrier	F110		
09:30 - 09:50				Coffee Break			
09:50 - 10:35	Oliver Schecker	HKA	Lecture	Battery technology	F110		
10:35 - 11:20	Oliver Schecker, Philipp Nenninger, Maurice Kettner	HKA	Laboratory	Battery lab, Roller dynamometer, IEEM Lab		students are divided among the different labs, preferences can be announced - exchange of experience during the bus drive	
11:20 - 11:30				Break for changing rooms		shift between laboratories during break	
11:30 - 12:15	Oliver Schecker, Philipp Nenninger, Maurice Kettner	HKA	Laboratory	Battery lab, Roller dynamometer, IEEM Lab		students are divided among the different labs, preferences can be announced - exchange of experience during the bus drive	
12:15 - 12:30	Michael Kauffeld	HKA	Walk to DJH	Walk from Lab to youth hostel			
12:30 - 13:00	Michael Kauffeld	HKA	Drive to Insheim	Lunch break in the bus	Bus		
13:00 - 14:00	Heiner Menzel	Vulcan	Excursion	Geothermal power plant	Insheim		
14:00 - 14:30				Drive from insheim to Landau			
14:30 - 15:30	Heiner Menzel	Vulcan	Excursion	Lithium extraction from geothermal water - plant visit	Landau		
15:30 - 16:00	Mk			Transfer from Landau to Wörth			
16:00 - 16:45	Josy Laier	Daimler	Excursion	E-Mobility at Daimler trucks	Wörth	Electric, fuel cell and alternative fuels trucks	
16:45 - 17:30	Josy Laier	Daimler	Excursion	E-Mobility at Daimler trucks	Wörth	Electric, fuel cell and alternative fuels trucks	
17:30 - 18:00				Relax			
18:00 - 20:30	Fahmi Bellalouna	HKA	Ecosail	Dinner at Sailing Club in Eggenstein: Barbecue, Sailing, swimming	Eggenstein	there is a beach volley ball field	

Thursday		12.09.2024		Water		Public services: Water and transport	
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks	
08:00 - 08:45	Nicholas Kiqundu	MAK	Lecture	PracTice	F110		
08:45 - 09:30	Alexander Grieb	HKA	Lecture	Water services in the Global South	F110		
09:30 - 09:50				Coffee Break			
09:50 - 10:35	Laura Maria Comella	HKA	Lecture	E-COSENSE P - Tree wellbeing	F110	Ingenium	
10:35 - 11:20	Oliver Hochlehner	HKA	Lecture	E-Bikes as game changer in transportation planning	F110		
11:20 - 11:30				Break			
11:30 - 12:15	Verena Wagner	HKA	Workshop	Self-experiment: How do I reach an unknown destination in Karlsruhe? Kußmaulstr. 17, 76187 Karlsruhe	F110		
12:15 - 13:00	Verena Wagner	HKA	Workshop	Self-experiment: How do I reach an unknown destination in Karlsruhe? Kußmaulstr. 17, 76187 Karlsruhe	F110		
13:00 - 14:00	M. Kauffeld + Michael Gebhardt	HKA / BAW		Lunch break	BAW	Kußmaulstr. 17, 76187 Karlsruhe	
14:00 - 15:30	Elke Petersson + Michael Gebhardt	HKA / BAW	Excursion	Visit test lab of Federal Waterways Engineering and Research Institute	BAW	https://www.baw.de/en/home/home.html	
15:30 - 16:00				Coffee break	F110	move back to HKA	
16:00 - 16:45	Verena Wagner	HKA	Group Work	Wrap-up: How do I reach an unknown destination in Karlsruhe?	F110		
16:45 - 17:30	Selma Janssen	HKA	Group Work	Sustainability at HKA	F110		
17:30 - 19:00	all		Relax	Break + Dinner	Youth Hostel	Moltkestraße 24, 76133 Karlsruhe	
19:00 - 20:30	students		Group Work	Group work / discussions Sustainability at	free choice		

Friday		13.09.2024		Climate Chg.		Global Warming		Please NOTE		Different time slots	
Time	Responsible	Affiliation	Theme	Subject	Room	Remarks					
08:00 - 08:45	Michael Kauffeld	HKA		Drive to Klima Arena	Bus	Christian Ledig from Klima Arena drives with us in the bus					
08:45 - 09:30	Christian Ledig	HKA		Welcome and presentation of Klima Foundation	Bus	and explains the Klima Arena to our students					
09:30 - 10:00	Philipp Wollenstein	Klima Arena		Tour of Technical Systems	Klima Arena						
10:00 - 10:30	Group 1		Lecture	Summarize Sustainability Day (Monday) + case study	Klima Arena	done by the students					
10:30 - 11:00	Group 2		Lecture	Summarize Refrigeration day (Tuesday) + case study	Klima Arena	done by the students					
11:00 - 11:20				Break	Klima Arena						
11:20 - 11:50	Group 3		Lecture	Summarize E-mobility day (Wednesday) + case study	Klima Arena	done by the students					
11:50 - 12:20	Group 4		Lecture	Summarize Water day (Thursday) + case study	Klima Arena	done by the students					
12:20 - 13:00				Lunch break	Klima Arena						
13:00 - 14:15	Nicole Rühl			Guided tour of Klima Arena	Klima Arena	Including Glacier experience					
14:15 - 15:00	Oliver Schecker, Maurice Kettner	HKA	Workshop	Build up the Climate Fresk in a team	Klima Arena	4-8 participants per team					
15:00 - 15:45	Oliver Schecker, Maurice Kettner	HKA	Workshop	Build up the Climate Fresk in a team	Klima Arena	4-8 participants per team					
15:45 - 16:00				Coffee break	Klima Arena	Outdoor, if the weather is nice					
16:00 - 16:45	Oliver Schecker, Maurice Kettner	HKA	Workshop	Summarize what you have learned and choose a title for your fresk	Klima Arena	4-8 participants per team, OHNE Publikum					
16:45 - 17:30	Oliver Schecker, Maurice Kettner	HKA	Workshop	See where we stand and share feelings, thoughts, ideas and actions to create a better future	Klima Arena	4-8 participants per team, OHNE Publikum					
17:30 - 19:00	Michael Kauffeld	HKA	Relax	Drive back to Karlsruhe and Wrap up - feedback on summer school	Bus	Wrap up - feedback on summer school					
19:00 - 22:00	all			Dinner at Badisch Brauhaus	Brauhaus	Stephanienstraße 38-40, 76133 Karlsruhe					
19:00 - 19:30	Siegfried Weber	Badisch Brauhaus	Sustainability	Sustainable restaurant and hotel	Brauhaus						
19:30 - 22:00	all	Badisch Brauhaus	Fun	Dance and enjoy the evening	Badisch Brauhaus	live music by Unikait					
Group work					Summarize Sustainability Day (Monday) + case study	worldwide sustainability					
10 students in each group					Summarize Refrigeration day (Tuesday) + case study	sustainable heating and cooling of buildings of a university					
					Summarize E-mobility day (Wednesday) + case study	sustainable transportation in a country					
					Summarize Public service day (Thursday) + case study	sustainable public services in a city					