



Student Conference on Green Building Design

Darmstadt, 02.07.2024 (Day 1)

09:50	10:05	Opening Remark	
10:05	11:40	Simultaneous Presentation Sessions (3 Break-out Rooms)	
Session 1 (RB)			
10:05	10:10	Technical Preparation	
10:10	10:18	1	5. 2. Use of recycled materials: Challenges, Benefits and Current Practice
10:20	10:28	2	5. 2. Use of recycled materials: Challenges, Benefits and Current Practice
10:30	10:38	3	5. 3. Sustainable and smart construction materials: Materials responding to thermal changes
10:40	10:48	4	5. 3. Sustainable and smart construction materials: Materials responding to thermal changes
10:50	10:58	5	5. 4. Sustainable and smart construction materials: Insulating concrete forms
11:00	11:08	6	5. 4. Sustainable and smart construction materials: Insulating concrete forms
11:10	11:18	7	4. 1. Thermal performance of green facades
11:20	11:28	8	4. 1. Thermal performance of green facades
11:30	11:38	9	4. 3. A comparison between cold roof and warm roof using a case study
11:40	11:48	10	4. 3. A comparison between cold roof and warm roof using a case study
Session 2 (NB)			
10:05	10:10	Technical Preparation	
10:10	10:18	1	5. 1.Green Building Materials: Passports and Inventories
10:20	10:28	2	5. 1.Green Building Materials: Passports and Inventories
10:30	10:38	3	13. 1. AI and Big Data Analytics for efficient Urban Forecasting [Planning]
10:40	10:48	4	13. 1. AI and Big Data Analytics for efficient Urban Forecasting [Planning]
10:50	10:58	5	13. 2. Urban Insights and Data-Driven Green City [Operation]
11:00	11:08	6	13. 4. AI and Drones for Urban Resilience Inspections / for urban management
11:10	11:18	7	13. 4. AI and Drones for Urban Resilience Inspections / for urban management
11:20	11:28	8	15. 2. Green Campus Strategies: for Hot and Dry Climate
11:30	11:38	9	15. 2. Green Campus Strategies: for Hot and Dry Climate
11:40	11:48	10	15. 3. Green Campus Strategies: for Tropical Climate
Session 3 (LK)			
10:05	10:10	Technical Preparation	
10:10	10:18	1	8. 2. Micro Energy Storage System in Green Buildings
10:20	10:28	2	8. 2. Micro Energy Storage System in Green Buildings
10:30	10:38	3	8. 3. Wind Energy in an Urban Environment
10:40	10:48	4	8. 4. (Innovative) Geothermal energy generation
10:50	10:58	5	8. 5. Usage of waste heat for energy supply of a living quarter
11:00	11:08	6	8. 7. Integrating Renewable Energy Microgrids
11:10	11:18	7	8. 7. Integrating Renewable Energy Microgrids
11:20	11:28	8	6. 2. Energy-Efficient Building Codes and Certification Systems: in [a country of your choice]
11:30	11:38	9	6. 3. Energy-Efficient Building Codes and Certification Systems: Critical Assessment of Acceptance, Necessity, Cost & Benefits
11:40	11:48	10	15. 3. Green Campus Strategies: for Tropical Climate
11:50	12:10	Closing Remark	



Student Conference on Green Building Design

Darmstadt, 09.07.2024 (Day 2)

09:50	10:05	Opening Remark	
10:05	11:40	Simultaneous Presentation Sessions (3 Break-out Rooms)	
Session 1 (RB)			
10:05	10:10	Technical Preparation	
10:10	10:18	1	2. 1. Timber construction: Thermal insulation
10:20	10:28	2	2. 1. Timber construction: Thermal insulation
10:30	10:38	3	2. 2. Timber construction: Fire safety
10:40	10:48	4	2. 4. Timber construction: Sound protection
10:50	10:58	5	2. 4. Timber construction: Sound protection
11:00	11:08	6	2. 5. Timber construction: An overview of sustainable construction methods
11:10	11:18	7	2. 5. Timber construction: An overview of sustainable construction methods
11:20	11:28	8	2. 6. Timber construction: An example of life cycle assessment
11:30	11:38	9	6. 1. Energy-Efficient Building Codes and Certification Systems: in Germany
11:40	11:48	10	6. 1. Energy-Efficient Building Codes and Certification Systems: in Germany
Session 2 (NB)			
10:05	10:10	Technical Preparation	
10:10	10:18	1	10. 1. Circular Economy for Green Cities
10:20	10:28	2	10. 1. Circular Economy for Green Cities
10:30	10:38	3	10. 2. Role of Urban Mining for the Circular Economy
10:40	10:48	4	10. 3. Current recycling practices in the building sector [in a country of your choice] and an outlook to the future reduction of construction wastes
10:50	10:58	5	10. 3. Current recycling practices in the building sector [in a country of your choice] and an outlook to the future reduction of construction wastes
11:00	11:08	6	5. 5. Sustainable and smart construction materials: Graphene-Reinforced Concrete
11:10	11:18	7	7. 5. Districted Heating Systems
11:20	11:28	8	7. 5. Districted Heating Systems
11:30	11:38	9	8. 6. Virtual Power Plants
11:40	11:48	10	8. 6. Virtual Power Plants
Session 3 (LK)			
10:05	10:10	Technical Preparation	
10:10	10:18	1	1. 2. Green Cities: London, England
10:20	10:28	2	1. 3. Green Cities: Madrid, Spain
10:30	10:38	3	1. 3. Green Cities: Madrid, Spain
10:40	10:48	4	1. 4. Green Cities: Hamburg, Germany
10:50	10:58	5	1. 4. Green Cities: Hamburg, Germany
11:00	11:08	6	1. 5. Green Cities: Paris, France
11:10	11:18	7	1. 6. Benefit-Cost Analysis of Green Infrastructure
11:20	11:28	8	1. 6. Benefit-Cost Analysis of Green Infrastructure
11:30	11:38	9	1. 7. Urban Canopy Effects on Outdoor Thermal Comfort
11:40	11:48	10	1. 7. Urban Canopy Effects on Outdoor Thermal Comfort
11:50	12:10	Closing Remark	



Student Conference on Green Building Design

Darmstadt, 16.07.2024 (Day 3)

09:50	10:05	Opening Remark	
10:05	11:40	Simultaneous Presentation Sessions (3 Break-out Rooms)	
Session 1 (RB)			
10:05	10:10	Technical Preparation	
10:10	10:18	1	3. 1. Building Information Modelling and Building Energy Modelling of an example building
10:20	10:28	2	7. 2. Mechanical ventilation heat recovery systems
10:30	10:38	3	7. 3. Controlled mechanical ventilation systems
10:40	10:48	4	7. 3. Controlled mechanical ventilation systems
10:50	10:58	5	7. 7. Smart Building Control Systems
11:00	11:08	6	11. 3. Innovative financing models for energy-efficient building retrofits
11:10	11:18	7	11. 4. Strategies for Serial Refurbishment
11:20	11:28	8	11. 4. Strategies for Serial Refurbishment
11:30	11:38	9	14. 1. Strategic Planning for Decarbonization (self-investigation): in Germany
11:40	11:48	10	14. 1. Strategic Planning for Decarbonization (self-investigation): in Germany
Session 2 (NB)			
10:05	10:10	Technical Preparation	
10:10	10:18	1	12. 1. Green Building Concept for Skyscrapers
10:20	10:28	2	12. 1. Green Building Concept for Skyscrapers
10:30	10:38	3	12. 2. Green Building Concept for Hospitals
10:40	10:48	4	12. 4. Green Building Concept for Retail Spaces
10:50	10:58	5	12. 4. Green Building Concept for Retail Spaces
11:00	11:08	6	12. 5. Green Building Concept for Warehouses & Distribution Centers
11:10	11:18	7	12. 5. Green Building Concept for Warehouses & Distribution Centers
11:20	11:28	8	12. 6. Green Building Concept for Office Spaces
11:30	11:38	9	12. 7. Green Building Concept for Social Housing
11:40	11:48	10	4. 2. Thermal performance of green roofs
Session 3 (LK)			
10:05	10:10	Technical Preparation	
10:10	10:18	1	1. 1. Green Cities: Vauban, Freiburg, Germany
10:20	10:28	2	1. 1. Green Cities: Vauban, Freiburg, Germany
10:30	10:38	3	1. 8. Urban Carbon Sequestration Strategies
10:40	10:48	4	1. 8. Urban Carbon Sequestration Strategies
10:50	10:58	5	1. 9. Urban Heat Island Effect: Modeling and Mapping
11:00	11:08	6	1. 10. Green City: Partnerships, Branding, Identity, Awards and Recognition
11:10	11:18	7	3. 2. Passive Cooling Strategies [District/ City Scale]
11:20	11:28	8	3. 3. Active/ Actively Managed Cooling Strategies [District/ City Scale]
11:30	11:38	9	3. 3. Active/ Actively Managed Cooling Strategies [District/ City Scale]
11:40	11:48	10	3. 5. Energy analysis of an example district (self illustrated)
11:50	11:58	11	15. 5. Green Campus Strategies: On-site Vegetation and Greenery: Sustainability Assessment
12:00	12:20	Closing Remark	