

SUMMERACADEMY of SUSTAINABILITY SAS24

September 02 – September 16

# COOL DOWN THE TOWN - BRICKSTONES FOR RESILIENT CITIES

Current trends in population growth and urbanization will lead to a significant need for all our cities to operate more sustainably in the near future.

The SummerAcademy 2024 will bring together experts and representatives from different countries to discuss the topics of sustainability and their relevance to architectural design, energy efficiency, renewable energy provision, circular economy, and the sustainable exploitation of natural resources.

We will provide you with key insights about sustainable planning and design.



Please visit our website for more information:  
[projekt.bht-berlin.de/summerschool-ars](https://projekt.bht-berlin.de/summerschool-ars)

# 2024

A Virtual Summer School about "COOL DOWN the TOWN"  
BRICKSTONES FOR THE CLIMATE-NEUTRAL CITIES

## PROGRAM & TIMETABLE

**TIME**

**TOPIC**

**SPEAKER**

Day 1: Monday 02/09/23

### OPENING EVENT AND KEYNOTES SPEECHES

**Moderator:**

**Prof. Florian Schindler**

Berliner Hochschule für Technik  
(BHT), Institut of Distance Learning

2:00 pm

**Welcome**

**Prof. Florian Schindler**, *Director Institute of Distance Learning (FSI, BHT)*  
**Almuth Draeger**, *Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV), Berlin*  
**Prof. Prowe**, *Vice President for Studies, Teaching and Further Education (BHT)*  
**Prof. Lutz Dittmann** *Vice Dean of the Department Architecture and Technical Building Services (BHT)*

2:30 pm

**Kopenhagen - towards 2045  
Roadmap for a climate neutral city  
- climate positiv until 2035**

**Camilla van Deurs**

*Stadsarkitekt i Københavns  
Kommune/ Denmark*

3:15 pm

**Coffee break**

3:30 pm

**Green cities: Copehagen - World  
Capital of Architecture 2023  
UNESCO.UIA**

**Kristine Munkgård Pedersen**,

*Programme Director, World Capital of  
Architecture 2023 Københavns Kommune*

4:30 pm

**Use of the existing with functional  
openness and aesthetic acceptance  
of the reuse of materials**

**Prof. Amandus Samsøe Sattler**

*Präsident der Deutschen Gesellschaft  
für Nachhaltiges Bauen, DGNB e.V.*

Day 2: Tuesday 03/09/23

### Post-Carbon Cities of Tomorrow

**Moderator:**

**Dr. André Deschan**

Berliner Hochschule für Technik (BHT),  
Institute of Distance Learning

2:45 pm

**Presentation of German  
University of Technology in  
Oman (GUtech)**

**M.Sc. Nusrat Kamal**

*German University of Technology  
Muscat Oman (GUtech)*

3:00 pm

**Urban Transformation Berlin  
Roadmap to a climate-neutral city**

**Prof. Alexander Kader**

*German University of Technology  
Muscat Oman (GUtech)*

4:00 pm	<b>Renewable Energy Options in Urban Projects: "Urban Tech Republic Tegel"</b>	<b>Blerina Qose</b> <i>Leiterin Planung/Errichtung/Projektsteuerung Green Urban Energy, Berliner Stadtwerke, E.ON</i>
4:45 pm	<b>Coffee break</b>	
5:00 pm	<b>Water Resources in the Cities: Collection, Storage and Re-use</b>	<b>Dr. Ulf Miehe</b> <i>Department Leader, Kompetenzzentrum Wasser, Berlin</i>
5:45 pm	<b>Introduction of the student project Get together</b>	<b>Members of the project groups get to know each other</b>

Day 3: Wednesday 04/09/23

**Shaping an integrated renewable energy system**

**Moderator:**

**Prof. Doreen Kalz**  
*Berliner Hochschule für Technik (BHT)*

2:45 pm	<b>Presentation of the Fluminense Federal University (UFF) and LaSalle University Niteroi, Brazil</b>	<b>Prof. Louise Lomardo</b> <i>Federal University Fluminense UFF, Brazil</i> <b>Prof. Diego Caetano</b> <i>LaSalle University, Brazil</i>
3:15 pm	<b>Heating and cooling concepts for energy efficient buildings</b>	<b>Prof. Doreen Kalz</b> <i>Berliner Hochschule für Technik (BHT)</i>
4:00 pm	nn	nn
4:45 pm	<b>Coffee Break</b>	
5:00 pm	<b>Methods for Assessing Microclimate of Green Solutions</b>	<b>Prof. Caio Frederico e Silva</b> <i>Dean of the Faculty of Architecture and Urbanism University of Brasilia, Brazil</i>

Day 4: Thursday 05/09/23

**Integration of Renewable Energies into Buildings**

**Moderator:**

**Prof. Louise Lomardo**  
*University of Fluminense, Niteroi, Brazil*

1:45 pm	<b>Presentation of the Middle East Technical University in Ankara, Turkey (METU)</b>	<b>Prof. Dr. Ali Murat Tanyer</b> <i>METU Ankara, Turkey</i>
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2:00 pm      **Assessment of Transparent Luminescent Solar Concentrators for Building Integrated Photovoltaics**      **Prof. Dr. Mehmet Koray Pekerçli and Timothy Bunoti**  
*METU Ankara, Turkey*

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3:00 pm      **Coffee break**

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3:15 pm      **Building Integrated Photovoltaics: current state and visions**      **Craig Wong**  
*Photovoltaik Institute Berlin AG*

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4:00 pm      **Agri-photovoltaics: state of development and opportunities for scaling**      **Carl Pump**  
*Fraunhofer ISE, Freiburg Germany*

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Day 5: Friday 06/09/23

### **Circular Economy / Life Cycle**

#### **Moderator:**

**Dr. André Deschan**

*Berliner Hochschule für Technik (BHT), Institut of Distance Learning*

1:45 pm      **Presentation of Rio State University Rio de Janeiro, Brazil (UERJ)**      **Prof. Roberto Nacif**  
*Rio State University (UERJ), Brazil*

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2:00 pm      **Cradle to Cradle - Materials, Methods and Developments**      **Dr. André Deschan**  
*Architect, Institut of Distance Learning*

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3:00 pm      **Coffee break**

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3:30 pm      **Cradle to Cradle - Building Methods, Examples and Experiences**      **Florian Kaiser**  
*Architect, Atelier Kaiser Shen*

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4:30 pm      **n.n.**      *n.n.*

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Day 6: Monday 09/09/23

### **Innovative building**

#### **Moderator:**

**Prof. Dr.-Ing. Felix Wellnitz**

*Berliner Hochschule für Technik (BHT)*

1:45 pm      **Presentation of National Autonomous University of Mexico, Mexico-City (UNAM)**      **Prof. Naoki García**  
*UNAM Mexico-City*

2:00 pm      **Innovative building materials and innovative facade concepts**      **Prof. v. Wedemeyer**  
*BHT, Berlin Germany*

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3:30 pm      **Coffee break**

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4:00 pm      **Towards sustainable buildings: State-of-the art and visions**      **Prof. Felix Wellnitz**  
*BHT, Berlin Germany*

Day 7: Tuesday 10/09/23  
**Sustainable building design in existing contexts**

**Moderator:**  
**Prof. Dr.-Ing. Felix Wellnitz**  
Berliner Hochschule für Technik (BHT)

2:00 pm      **Sustainable building design in existing contexts**      **Dipl.-Ing. Matthias Haber**  
*Architect*  
*Hild und K Architekten/Germany*

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2:45 pm      **Techniques for sustainable refurbishments in historic buildings**      **Prof. Felix Wellnitz**  
*BHT Berlin, Germany*

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3:30 pm      **Presentation of Technological University of Havana (CUJAE)**      **Prof. Dayra Gelabert**  
*CUJAE Havana, Cuba*

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3:45 pm      **Coffee break**

## WORKSHOPS

4 - 6 pm      Workshop 1:  
**Pre-dimensioning Building Integrated Photovoltaics**      **Craig Wong**  
*Photovoltaik Institute Berlin AG*

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4 - 6 pm      Workshop 2:  
**Passive Ventilation Strategies**      **Ing. Sebastian Vilchis**  
*UNAM Mexico*

4 - 6 pm	Workshop 3: <b>Basic thermal simulation of a building zone</b>	<b>Prof. Felix Wellnitz</b> <i>BHT Berlin, Germany</i>
4 - 6 pm	Workshop 4: <b>Pre-evaluation of energy consumption and CO2 emission of building over entire life cycle</b>	<b>Prof. Dr. Ali Murat Tanyer</b> <i>METU Ankara, Turkey</i> <b>Prof. Dr. Mehmet Koray Pekerçli</b> <i>METU Ankara, Turkey</i>
4 - 6 pm	Workshop 5: <b>Passive Measures for Bioclimatic Buildings and Urban Microclimates</b>	Prof. Louise Lomardo, <i>UFF</i> Prof. Diego Caetano, <i>LaSalle</i> Prof. Roberto Nacif, <i>UERJ</i>

Day 8: Wednesday 11/09/23

### Student Project

4–5 pm	<b>Consultation for student project, chats with experts (parallel):</b>	
	<ul style="list-style-type: none"> <li>Architecture and integral design</li> <li>Architecture, urbanism and building construction</li> <li>Architecture building construction</li> <li>Technical building services</li> <li>Life cycle analysis</li> <li>Architecture and Urbanism</li> <li>Architecture</li> </ul>	<ul style="list-style-type: none"> <li>Prof. Dr. Ali Murat Tanyer</li> <li>Prof. Louise Lomardo,</li> <li>Prof. Diego Caetano,</li> <li>Prof. Roberto Nacif,</li> <li>Prof. Dr.-Ing. Felix Wellnitz Prof.</li> <li>Dr.-Ing. Doreen Kalz</li> <li>Prof. Dr. Mehmet Koray Pekerçli</li> <li>Prof. Naoki Gracia</li> <li>Prof. Dr. Dayra Gelabert</li> </ul>

Day 9: Thursday 12/09/23

### Student Project

4-5 pm	<b>Consultation for student project, chats with experts (parallel):</b>	
	<ul style="list-style-type: none"> <li>Architecture and integral design</li> <li>Architecture, urbanism and building construction</li> <li>Architecture building construction</li> <li>Technical building services</li> <li>Life cycle analysis</li> <li>Architecture and Urbanism</li> <li>Architecture</li> </ul>	<ul style="list-style-type: none"> <li>Prof. Dr. Ali Murat Tanyer</li> <li>Prof. Louise Lomardo,</li> <li>Prof. Caetano, Prof. Nacif</li> <li>Prof. Dr.-Ing. Felix Wellnitz Prof.</li> <li>Dr.-Ing. Doreen Kalz</li> <li>Prof. Dr. Mehmet Koray Pekerçli</li> <li>Prof. Naoki Gracia</li> <li>Prof. Dr. Dayra Gelabert</li> </ul>

Day 10: Friday 13/09/23

## Student Project

4-5 pm

### Consultation for student project, chats with experts (parallel):

Architecture and integral design  
Architecture, urbanism and building construction  
Architecture building construction  
Technical building services Photovoltaics and BIPV  
Life cycle analysis  
Architecture

Prof. Dr. Ali Murat Tanyer  
Prof. Louise Lomardo,  
Prof. Caetano, Prof. Nacif Prof.  
Dr.-Ing. Felix Wellnitz Prof. Dr.-  
Ing. Doreen Kalz Craig Wong  
Prof. Dr. Mehmet Koray Pekerçli  
Prof. Dr. Dayra Gelabert

Day 11: Monday 16/09/23

## Closing Event

### Moderator:

**Prof. Florian Schindler**  
Berliner Hochschule für Technik  
(BHT), Institut of Distance Learning

3:00 pm

### Presentation of student projects

Jury:

Prof. Dr. Florian Schindler, BHT  
Prof. Dr.-Ing. Doreen Kalz, BHT  
Prof. Dr.-Ing. Felix Wellnitz, BHT  
Dr. André Deschan, BHT  
Prof. Dr.-Ing. Lutz Dittmann, BHT  
Prof. Petra Vondenhof-Anderhalten, BHT  
M. Sc. Alperen Tuzcu, BHT  
Prof. Louise Lomardo, UFF  
Prof. Diego Caetano, LaSalle  
Prof. Roberto Nacif, UERJ  
Prof. Dr. Ali Murat Tanyer, METU  
Prof. Dr. Mehmet Koray Pekerçli, METU  
Prof. Alexander Kader, GUTech  
Prof. Naoki Gracia, UNAM  
Prof. Dayra Gelabert, CUJAE

5:00 pm

### Coffee break

5:30 pm

## Award of projects and closing event