



Green. Building. Solutions.

Vienna Summer University, 24. July-14. August 2011 ([more](#))

Program Dates

24 July to 14 August 2011

Registration Deadline

25 April 2011

Program Fee ([more](#))

Euro 1.900/2.300,-- (students/alumni), including all listed program components, funding opportunities offered

How to apply ([more](#))

at www.summer-university.com, open for Master-level students and alumni

Courses ([more](#))

- 64 Contact Hours (8 ECTS) on
 - Sustainable Urban Development
 - Energy Efficient Building Solutions
 - Passivhaus

Visits

- Aspang & [aspersn Seestadt](#)
- [solarCity Linz](#)
- [Daylight Dome Krems](#)
- [Energy Base, OeAD Passivhaus](#)
- [Passivhaus Campus FH Salzburg](#)
- [LOPAS, Tattendorf](#)
- Timber Attic

Excursions & Activities ([more](#))

- District Heating Plant
- Architectural City Tour of Vienna
- Viennese Waltzing night
- Danube River Highlights Tour
- Salzburg City visit
- Schönbrunn
- Movie & Discussion night

Accommodation in OeAD Passivhaus

First hand ecological knowledge and engineering expertise bundled in a three-week program in the capital of energy efficient building: Vienna. Think sustainable, take care of your future - now.

Comfortable living - summer and winter - without energy intense heating or cooling systems? Fresh air without temperature loss? "Passivhaus" is the leading standard for energy efficient building solutions. The investment is evened out rapidly by cutting operating cost by 9/10th and makes its inhabitants independent from rising energy prices and fossil fuels. And: its' profitability and environmental viability turns it into an opportunity for specialized architects.

Austria is the pioneer in Passivhaus-Technology: 3,2 Mio m² of floor space out of 7,0 Mio m² in whole Europe are found here.

Managing the increased need of specialized skills in planning and execution can be handled through substantiated advanced training. This program is your chance to step into this building standard of the future already today and become a first mover in the growing market of energy efficient building.

It offers an introduction and outlook of sustainable architecture as well as sustainable urban development and planning while presenting leading examples.

You will find an overview of green building rating systems and learn about ecological building materials and renewable resources in order to understand buildings over their life-cycle. With the integration of renewable energies into building concepts you will grasp the concept of the Passivhaus.

- **Learn from the best:** acquire cutting-edge skills from an Austrian consortium of eight academic institutions, 38 experts and the Austrian Passivhaus Union ([IG Passivhaus](#)) in an interdisciplinary setting
- **Best practice at hand:** connect theoretical knowledge and practical expertise right on site
- **Try it yourself:** enjoy to live in a Passivhaus
- **Benefit your clients:** your skills for healthy, cozy and efficient constructing and living
- **Engage in intercultural learning:** get involved in the group dynamics with international colleagues
- **Visit Austria's cultural highlights:** the cultural heritage city of Vienna, right in the heart of CENTROPE region, visit „the sound of music city" Salzburg, and Linz the European Capital of Culture 2009



Course Program ([more](#))

Learning objectives

- Understand the origin of resources and the respective use as well as the integration in buildings
- Learn about the relationships between buildings and their context
- Create an understanding for the necessity of interdisciplinary cooperation to realize green building strategies

Course topics

- Sustainable urban and settlement development, spatial planning for increased quality of life (including: mobility, open space planning, energy supplies and renewable energies, waste management)
- Resource-optimized building concepts
 - Fundamentals of planning for resource-optimized building concepts
 - Passivhaus and Energy Plus Buildings
 - Healthy Building
 - § Thermal comfort
 - § Air quality
 - § Daylight planning
 - Building envelope, renewable construction materials (NAWAROs)
 - Building Services Engineering
 - § Control systems, automatization
 - Certification of buildings, quality control
 - Sociological aspects, impact of utilizers

Graduates of the Green. Building. Solutions. Summer University are entitled to a reduced tuition fee and an accreditation for the Masters Program "[Future Building Solutions at Danube University Krems](#)".

Lectors

Among our 38 reputable lectors you will find the following academic representatives:



Univ.Prof. Arch. DI Dr.techn.
Martin Treberspurg
University of Natural Resources and Life Sciences, Vienna ([BOKU](#))



Ass.Prof. DI Dr.techn.
Karin Stieldorf
Technical University Vienna, Department for Architecture and Design ([TU](#))



Ing., MSc.
Bernhard Kram
Danube University Krems, Department for Building and Environment ([DUK](#))



ao.Univ.Prof. Doz. Dr.
Gunther Maier
Vienna University of Economics and Business, Institute for Regional Development and Environment ([WU](#))



Ass.Prof. Dr.
Sabine Sedlacek
Modul University Vienna, Public Governance and Management ([MODUL](#))



DI Dr.
Gerhard Zucker
Austrian Institute of Technology, Energy Department ([AIT](#))



Anticipated Schedule ([more](#))

Lecture & Workshop **Excursion** Social Activity

Sun 24.07.	<i>Arrival Day: Check-in at OeAD Passivhaus</i>	

Sustainability in Building & Urban Planning

Week 1	Mon	<ul style="list-style-type: none"> Orientation Day Program Briefing, Expectations Session Intercultural Training
		<p style="text-align: right; color: green;">Evening Reception with local students at Vienna City Hall</p> <p style="text-align: right;">Günter Lang, IGPH Wolfgang Feist (tbc) Ernst Ulrich von Weizsäcker (tbc)</p>
		<p>25.07.</p> <ul style="list-style-type: none"> Introductory Keynote: Sustainability: An answer to limits to growth and climate change? <p style="text-align: right;">Helga Kromp-Kolb, BOKU</p>
	Tue	<ul style="list-style-type: none"> Economic concepts of externalities, efficiency and refurbishment <p style="text-align: right;">Gunther Maier, WU & Sabine Sedlacek, MODUL</p>
		<p>26.07.</p> <ul style="list-style-type: none"> Human ecology <p style="text-align: right;">tba</p> <p style="text-align: right; color: green;">Waltzing Night</p>
	Wed	<ul style="list-style-type: none"> Energy Economics, Sustainable Supply Scenarios, Set Plan <p style="text-align: right;">Günther Brauner, TU</p>
	<p>27.07.</p> <ul style="list-style-type: none"> District heating District Heating Plant <p style="text-align: right;">Olivier Pol, AIT Alexander Wallisch, Fernwärme Wien</p>	
Thu	<ul style="list-style-type: none"> Regional Development Regional Development: Practices in different sectors <p style="text-align: right;">Gunther Maier, WU Sabine Sedlacek & Dagmar Lund-Durlacher, MODUL</p> <p style="text-align: right; color: green;">Student Union Meeting Movie & Discussion: <i>The 4th Revolution</i></p>	

	Fri	<ul style="list-style-type: none"> Urban Planning, Land Use, Gender Planning and Life Styles 	Elisabeth Aufhauser , UW
	29.07.	<ul style="list-style-type: none"> aspern Vienna 's Urban Lakeside, Project Presentation 	Claudia Nutz, Wien 3240
	Sat	<ul style="list-style-type: none"> Passivhaussiedlung, Aspang 	Gerhard Berger, Stadt Wien
	30.07.		
	Sun	<p style="text-align: right;">City Tour</p> <p style="text-align: center;">Vienna's Architectural Styles</p> <p>Jugendstil, Biedermaier, Hundertwasser & Co.</p>	
	31.07.		

Principles of Passivhausplanung

Week 2	Mon	<ul style="list-style-type: none"> Introduction, overview and outlook of sustainable architecture 	Martin Treberspurg , BOKU
	01.08.	<ul style="list-style-type: none"> Principles of the Passive House & Design of the Austria House 	Mariam Djalili , BOKU
		<ul style="list-style-type: none"> IEAA-Tool "Integrating energy-relevant aspects in early design stages" 	Mariam Djalili , BOKU
		Tue	<ul style="list-style-type: none"> Grey Energy in building materials
	02.08.	<ul style="list-style-type: none"> Assurance of Quality in Passivhaus Timber Constructions 	Heinz Ambrozy , IGPH
		<ul style="list-style-type: none"> Timber Attic 	Heinz Ambrozy , IGPH
	Wed	<ul style="list-style-type: none"> Passivhaus Loam Constructions 	Karin Stieldorf , TU
	03.08.	<ul style="list-style-type: none"> LOPAS, Tattendorf 	Karin Stieldorf , TU
	Thu	<ul style="list-style-type: none"> Daylight Engeneering 	Bernhard Kram , DUK
	04.08.	<ul style="list-style-type: none"> Acoustics 	Robert Schild, Isover
		Fri	<ul style="list-style-type: none"> Passivhaus in different Climatic Regions
	05.08.	<ul style="list-style-type: none"> From Passivhaus to standard to Energy Plus Buildings 	Karin Stieldorf , TU
		<ul style="list-style-type: none"> Culture of constructing 	Georg W. Reinberg , IGPH
		<ul style="list-style-type: none"> Energy Base 	Karin Stieldorf , TU
Sat	<p style="text-align: center;">Optional Visits around Vienna (fitting to participant focus)</p> <ul style="list-style-type: none"> Daylight Dome, Krems <p style="text-align: center;">City Tour Krems, Danube Cruise Overnight: Raab Heim, Linz</p>	Bernhard Kram , DUK	
06.08.			
Sun	<p style="text-align: right;">City Tour Linz</p> <ul style="list-style-type: none"> solarCity Linz-Pichling <p style="text-align: center;">Messe Wels, Plöderl Overnight: Raab Heim, Linz</p>	Ulla Ertl-Balga , BOKU	
07.08.			

Renewable Energies & Business Concepts

Week 3	Mon	<ul style="list-style-type: none"> University of Applied Sciences Salzburg First Passivhaus University Campus 	Hartwig Reiter, FH Sbg. Alexander Petutschnigg, FH Sbg.
	08.08.	Salzburg City Tour Red Bull, Hangar	
	Tue	<ul style="list-style-type: none"> Applied Building Controls/Building Automation Networks Quality Assurance for Technical Building Equipment (HVAC) Marketing Opportunities for Architects in Energy Efficient Building 	Gerhard Zucker & Peter Palensky, AIT Johannes Fechner, BOKU Robert Schild, Isover
	09.08.		
	Wed	<ul style="list-style-type: none"> Heat Pumps, Earth Collectors, Controlled Air Ventilation Innovative cooling processes (Solar cooling) Photovoltaic 	Markus Haider & Dietrich Wertz , TU Doris Österreicher, AIT Ertex
	10.08.		
	Thu	<ul style="list-style-type: none"> The measured Performance of Passive Houses. Wellbeing, Costs and Energy Performance Life Cycle Analysis of Buildings LCC – Life Cycle Costs Analysis for Buildings. Economy of Energy Efficient Buildings Sustainable Building Labels – a Tool for Planning, Marketing and CSR Simulation in the building process to increase energy efficiency 	Roman Smutny , BOKU Roman Smutny , BOKU Philipp Kaufmann , WU Philipp Kaufmann , WU Markus Brychta, AIT
11.08.	"Heuriger"		
Fri	<ul style="list-style-type: none"> Regulatory Requirements for Energy Efficient Buildings in Austria Klima:aktiv - the Austrian climate protection initiative: strategy and program, tools Healthy Buildings 3D simulation tools for the healthy building analysis 	Christian Pöhn, Stadt Wien (tbc) Roman Smutny , BOKU Vladimir Vukovic, AIT Mirza Popovac & Bernhard Kubicek, AIT	
12.08.			
Sat	<ul style="list-style-type: none"> Passivhaus Project Presentations Lessons Learned of the first large volume Passive Houses in Austria Student Project Presentations Certification Ceremony 	Johannes Kislinger, IGPH Roman Smutny , BOKU	
13.08.			
Sun	<i>Departure Day: Check-out</i>		
14.08.			

Status: 4. January 2011. Subject to change without prior notice.