

Presentation of the results of an interdisciplinary research project led by the institute for buildings and energy at Graz University of Technology, which examines ways of restructuring and reconfiguring the physical infrastructure of cities to radically increase their energy performance, with particular emphasis on more effective use of building space and the use of synergies between physical and virtual infrastructure, living and working spaces, teleworking etc.; in short, strategies for spatial, temporal and digital densification. In the course of the project, new typologies for vertical structures incorporating all the necessary infrastructural elements of society including industrial and agricultural usages, food production etc. were developed. Building integrated energy production is one of the focal points thereby. The aim is to provide solutions for the impending energy issues AND at the same time radically improve the quality of life in our cities.

10<sup>th</sup> June 2011, TU Graz, HS2  
900 - 1900  
**ENERGYCITY** Conference

**Programmable Sustainable Architecture** | KAS OOSTERHUIS | Rotterdam

Professor at the architectural faculty at Delft University of Technology and director of Hyperbody and the protospace laboratory for collaborative design and engineering. Research in the areas of interactive architecture, real time behaviour of buildings and environments, living building concepts, collaborative design, file to factory production and parametric design.

**Sustainable Urban Design** | ALEJANDRO GUTIERREZ | Milan

Associate director at Arup urban design. He led the design on the Dongtan Eco City project for Shanghai and is currently leading several innovative projects that include the Low2no project in Helsinki, a sustainable master plan for Manifattura Domani and an ecological master plan for 40,000 inhabitants in Santiago, Chile.

**Research at the Institute for Buildings and Energy** | BRIAN CODY | Graz

Founder and director of the institute for buildings and energy at Graz University of Technology with research focus on maximizing energy performance of buildings and cities. Founder and principal of Energy Design Cody, delivering energy efficient building concepts worldwide. Visiting professor at the "Angewandte", University for Applied Arts in Vienna.

**Research Project "Teleworking and Energy Efficiency, Hyper Buildings"**

ANDREAS AMPENBERGER, WOLFGANG LÖSCHNIG, EDUARD PETRIU, DANIEL PODMIRSEG  
*Institute for Buildings and Energy, Graz University of Technology*  
 BERNHARD SOMMER

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**IT, Energy and Teleworking** | VOLKER BUSCHER | London

Director of Arup IT, leading the firms work in the use of information technology in resource efficiency which includes the development of an approach for cities and utilities, urban information architecture and sustainable information technology for enterprise and government organization. Currently working on projects in Europe, the Middle East, USA and Asia.

**Transport, Energy and Teleworking** | MARTIN FELLENDORF | Graz

Dean of the faculty of construction engineering and director of the institute for highway engineering and transport planning at Graz University of Technology. Research interests in the areas of transportation, traffic and infrastructure.

**Flexible Adaptable Space** | ROGER RIEWE | Graz

Director of the institute for architectural technology at Graz University of Technology and co-founder and managing director of Riegler Riewe Architects, currently responsible for the design of projects in Austria, Germany and Poland. Research interests in the areas of structure, space and technology.

**Structure and Adaptability** | KLAUS BOLLINGER | Frankfurt

Professor at the architectural faculty of the "Angewandte", University for Applied Arts in Vienna and director of the structural engineering consulting firm "Bollinger + Grohmann", delivering structural engineering design on high profile international projects. Research interests in the use of structure to create flexible adaptable spaces.

**Student Projects "Hyper Buildings"**

*Graz University of Technology*

*Angewandte, University for Applied Arts in Vienna*

**Panel Discussion**

KLAUS BOLLINGER, VOLKER BUSCHER, BRIAN CODY, ALEJANDRO GUTIERREZ, KAS OOSTERHUIS, ROGER RIEWE

**Results of the jury for best student project, Energy City Award 2011**

more information at: [ige.tugraz.at](http://ige.tugraz.at)