

ICEBO'08

8th International Conference for Enhanced Building Operations

Under Patronage of



ICEBO'08

8th International Conference for Enhanced Building Operations

Berlin, October 20 - 22, 2008

Preliminary Program

ICEBO'08 is the international conference event for investors and developers, owners and facility managers, architects and engineers, researchers and policy makers

- Innovative Architecture – Advanced Concepts in Design, Construction and HVAC
- Building Automation – Optimizing Energy Efficiency and User Comfort
- Energy Efficient Buildings – Challenge for the Building Industry and ESCOs
- Building Certification – Life Cycle Costs, Sustainability, Productivity
- European Performance of Buildings Directive – Experiences and Perspectives

Visit ICEBO'08 in Berlin and meet international experts on enhanced building operations!

Hosted by



In cooperation with



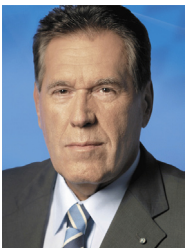
A research initiative of BMWi



Berlin, October 20 - 22, 2008

ICEBO'08 8th International Conference for Enhanced Building Operations

Message of Greeting



Enhancing energy efficiency is the key to a successful energy and climate policy. It represents a great opportunity for the private sector. There is enormous market potential for energy-efficient technologies and new energy-related services. Modern technologies are the best answer to rising energy prices.

As one of the largest consumers of energy, the building sector can serve as a particularly useful example: much of the potential for energy conservation can be developed in an economically viable manner in this sector. The international construction and real estate industry has recognised this, and is taking fresh approaches to the energy-optimised construction and operation of modern buildings. Germany can make an important contribution here. Thanks to the fruits of many years of research and development work, German firms are able to offer energy-efficient solutions for the building sector all round the world.

That is why the Federal Ministry of Economics and Technology is supporting the 2008 ICEBO International Conference. I am glad to be serving as patron of the conference.

A handwritten signature in black ink, appearing to read 'Michael Glos', written in a cursive style.



Michael Glos MdB
Federal Minister of Economics and Technology

"Green" and "Eco" buildings are advancing all over the world. They combine high energy efficiency with good indoor environmental qualities and well balanced life cycle cost. Comprehensive certification methodologies are being developed internationally to improve building performance. Innovations in facade- and HVAC-technology are the challenges for sustainable buildings. ICEBO'08 is the ideal platform for building professionals to discuss international research activities and building visions for the 21st century.



Univ.-Prof. Dr.-Ing. M. Norbert Fisch

Director of IGS - Institute of Building Services and Energy Design
 Technical University Braunschweig, Germany

Working closely with all parties involved in planning is currently the only way to achieve sustainable success and to aim at high design values. A holistic approach for complex technical building projects is the source to meet the demands for comfort and functionality by investors and tenants. This interaction and integration of all individual structural measures can be achieved by the application of building automation systems. Complex building automation systems act as the nerve system of a building, not only controlling all generated data but assembling essential parameters for a constant optimization of all technical systems controlling building operations, throughout the building life cycle.



Prof. Dr.-Ing. Werner Jensch

Managing Director of Ebert-Ingenieure/Ebert-Consulting Group
 Nuremberg-Munich, Germany

On behalf of the Energy Systems Laboratory, Texas A&M University, USA, it is my pleasure to invite you to the 8th International Conference for Enhanced Building Operations (ICEBO). This conference brings together building professionals, engineers, architects, owners, and operators with the goals of reducing building energy usage and improving comfort. As the American host, I am very pleased to have the patronage of the German Ministry of Economics and Technology and to have as co-hosts IGS - Institute of Building Services and Energy Design and Ebert-Ingenieure/Ebert-Consulting Group. We are confident that you will profit from the technical expertise and experience of our presenters, and, best of all, the interaction with so many energy professionals from all over the world.



Prof. Dr. Dan Turner

Director of Energy Systems Laboratory
 Texas A&M University, USA

ICEBO'08 is supported by

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Program

Monday, October 20, 2008

ICEBO'08

8th International Conference for Enhanced Building Operations

10:00 - 11:35

Plenary Session: Enhanced Building Operations

Welcome

Univ.-Prof. Dr.-Ing. M. Norbert Fisch

Director of IGS - Institute of Building Services and Energy Design,
Technical University of Braunschweig, Germany

Prof. Dr.-Ing. Werner Jensch

Managing Director Ebert-Ingenieure/Ebert-Consulting Group,
Nuremberg-Munich, Germany

Prof. Dr. Dan Turner

Director of Energy Systems Laboratory
Texas A&M University, USA

Greetings from the Ministry

State Secretary Jochen Homann

Federal Ministry of Economics and Technology, Berlin, Germany

Key Notes

**Funding of Research and Development for Energy Efficient Buildings -
Perspectives for Germany**

Dr. Knut Kübler

Head of Energy Research Division, Federal Ministry of Economics and Technology, Berlin, Germany

A Framework for Energy Service Companies in Public Buildings

Gunnar Liehr

Vice President - Head Europe Energy & Environmental Solutions
Siemens Switzerland Ltd., Building Technologies, Energy & Environmental Solutions, Zug, Switzerland

11:45 - 13:15

Sessions

2.1 Architecture

Integrated Architectural Concepts

Dipl.-Ing. Architect Elmar Schossig BDA

Partner (Owner) GATERMANN + SCHOSSIG GmbH
Cologne, Germany

Masdar Development – Vision of a

CO₂-Neutral City in Abu Dhabi

Dipl.-Ing. Mathias Schuler

President, TRANSSOLAR Climaengineering GmbH
Stuttgart - Munich - New York

Buildings and People:

The Integrated Workplace

Steen Enrico Andersen

Director, Architekt maa
PLH Architekts as, Copenhagen, Denmark

**Energy Efficiency in Architecture
and Urban Design**

Univ.- Prof. Brian Cody BSc(Eng)

Hons CEng MCIBSE

Director, Institute for Buildings and Energy
Graz University of Technology, Austria

2.2 Building Certification

**Non Residential Buildings - One Year after
Implementation of EnEV 2007 and DIN 18559**

Univ.-Prof. Dr.-Ing. Gerd Hauser

Head of Fraunhofer-Institute of Building Physics
Stuttgart, Germany

**Assessing the Sustainability of Buildings -
From Energy Certificate to Sustainability Re-
port**

Prof. Dr.-Ing. habil. Thomas Lützkendorf

Head of Chair, Department of Economic and Business
Engineering, Sustainable Management of Housing
and Real Estate, University of Karlsruhe, Germany

**Better than Average? - Green Building
Certification in International Projects**

Dipl.-Ing. Oliver Baumann

President, Ebert & Baumann Consulting Engineers
Inc., Washington DC, USA

**The German Certificate for Sustainable Build-
ings - a National and International Outlook**

Prof. Ing. Alexander Rudolphi

Founding President of DGNB - German Sustainable
Building Council, Berlin, Germany

Sessions

3.1 Facades

Innovative Engineering Facades

Klaus Lothar

Managing Director, Josef Gartner GmbH
Gundelfingen, Germany

Saving and Gaining Energy - The Schüco E²-Facade

Dipl.-Ing. (FH) Frank Zimmermann

Product Owner Facades, Safety and Solar Protection
Systems, Schüco International KG
Bielefeld, Germany

Ultra-Thin, Energy Efficient Facades - a Contradiction in Terms?

Challenges and Novel Strategies

Dr. Hans-Peter Ebert

Head of The Bavarian Center for Applied Energy
Research (ZAE Bayern e.V) Würzburg, Germany

Energy Efficient Innovative Facade Solutions

Dipl.-Ing. Hans Erhorn

Head of Department Heat Technology, Fraunhofer
Institute of Building Physics, Stuttgart, Germany

3.2 Life Cycle

14:45 - 16:15

The Performance Competition in the Building Sector Demands New Purchasing Models for Innovative Building Technology

Prof. Henning Balck

Managing Director, Balck + Partner GmbH
Heidelberg, Germany

Calculation and Optimization of Usage- and Life-Cycle-Cost

Prof. Dipl.-Ing. Uwe Rotermund M. Eng.

Chair of Foundation Real Estate - Life Cycle -
Management, University of Applied Sciences
Munster, Germany

Improving Indoor Air Quality Improves the Performance of Office Work and Schoolwork

Pawel Wargocki, Ph.D.

Associate Professor, VP Research ISIAQ
Technical University of Denmark, Lyngby

Energy and Climate Breakthroughs in the Real World - Mixed Used Development in Ohio

Peter Garforth

President, Garforth International LLC, Ohio, USA

Sessions

4.1 Investors & Owners

Green Building - Efficient Life Cycle

Dipl.-Ing (FH) Rainer Kohns

Head of Mechanical and Electrical Infrastructure
Siemens AG, Siemens Real Estate
Munich, Germany

Creating a Global Example - Company Headquarters Become Green Buildings

Prof. Dipl.-Ing. Holger Hagge

Director Strategic Projects, Deutsche Bank AG
Frankfurt/Main, Germany

Green Building Viewed Through The Investors Glasses - Does Sustainable Real Estate Investment Pay Off?

Dipl.-Ing. M. Arch. Ralf Bode

Real Estate Project Management
Union Investment Real Estate AG
Hamburg, Germany

Green Building - Technological Approaches for Realization from an Investors Perspective

Hubert Garzorz

Head of Project and Real Estate Development
MEAG Real Estate
Munich, Germany

4.2 Energy Services

16:45 - 18:15

Role Perception as a Key to Success in Energy Performance Contracting

Lawyer Christian Marthol

Associate Partner, Rödl & Partner GmbH

Dipl.-Ing. (FH) Richard Weller

Managing Director, makon GmbH & Co. KG
Nuremberg, Germany

Energy Services for State Properties - German Experiences

Dr.-Ing. Bernd Eikmeyer

Project Manager, Bremer Energie Institut, Germany

Energy Efficiency in Buildings - The Utilities View

Ulli König

RWE Energy AG, Dortmund, Germany

Energy Saving Contracting - Case Study of the Central Hospital Gunzenhausen

Dipl.-Ing. Stephan Weinen

Director, WISAG Energiemanagement GmbH & Co. KG
Nuremberg, Germany

Energy Savings Contracting for Industrial Real Estate - Case Studies

Till Tomann

Branch Manager, Imtech Contracting GmbH & Co. KG
Berlin, Germany

Program

Tuesday, October 21, 2008

ICEBO`08

8th International Conference for Enhanced Building Operations

09:00 - 10:30

Plenary Session: Buildings and Climate Change

European Policies for Energy Efficiency

Paolo Bertoldi

European Commission Joint Research Centre (JRC), Institute for Energy, Ispra, Italy

To be Announced

US Department of Energy (DOE), Washington DC, USA

Energy Diagnosis Based on a Comparison of Energy Consumption Data in Large-scaled Commercial Buildings

Prof. Dr. Jianjun Xia

School of Architecture, Tsinghua University, Beijing, China

Global, Regional and National Policy Implications of Energy and Environmental Impacts of Buildings - Preliminary Results of the Work of the UNEP Think Tank for Sustainable Buildings and Construction

Prof. Dr. Volker Hartkopf

Director CBP&D, Carnegie Mellon University, Pittsburgh, USA

10:45 - 12:15

Sessions

6.1 Practitioners Reports

6.2 New Technologies

Office Buildings: Developer Requirements – Consultant Solutions

Dipl.-Ing. (TU) Jens Arndt

Head of Engineering and Operations
Vivico Real Estate GmbH, Frankfurt/Main, Germany

Dipl.-Ing. Peter Forster

Managing Director
Ebert-Ingenieure Berlin GmbH, Germany

Partnering as the Key to Success: Highest Design Quality through early Integration of Competence in Construction and Operation

Dr. Matthias Jacob

Head of Executive Board
Bilfinger Berger Building GmbH
Frankfurt/Main, Germany

The European Performance of Buildings Directive – Case Study Project: The New ECB Premises, Frankfurt

Malachy Neeson

Senior Engineer, European Central Bank
Frankfurt/Main, Germany

Dipl.-Ing. Thilo Ebert

Managing Director
Ebert-Consulting Group GmbH & Co. KG
Munich, Germany

Sustainable Project Development

Beate Reinartz

Managing Director
Hines Immobilien GmbH
Munich, Germany

Air Conditioning in Green Buildings? How Indoor Environment Quality Impacts User and Life Cycle Costs

Dr.-Ing. Hans Werner Roth

Authorized Signatory and Head of Product
Innovations LTG AG, Stuttgart, Germany

DeAL - Facade Integrated Ventilation Systems Evaluation Results from 12 Buildings in Operation

Dr.-Ing. Robert Himmler

Steinbeis-Transfer Center for Energy, Building and Solar Technology, Stuttgart, Germany

Dipl.-Ing. (FH) Dirk Scherder

Manager FSL/Air-Water-Systems
Trox GmbH, Neukirchen-Vluyn, Germany

Operation Diagnosis for Buildings Connecting Building Management Systems with Energy Management Systems

Dipl.-Ing. Günther Mehler

Head of Bavarian Division
Johnson Controls Systems & Service GmbH,
Munich, Germany

Energy Saving and Good Quality Lighting for Indoor Applications

Dipl.-Ing. Hans-Hasso Lange

Product Marketing Manager Office Lighting
Philips GmbH, Springe, Germany

Sessions

7.1 Best Practice

7.2 Building Automation

13:45 - 15:15

Improving the Energy Performance of Existing Buildings - Strategies, Potentials, Examples

Univ.-Prof. Dr.-Ing. Ulrich Wagner

Chair of Energy Industry and Applications Engineering, Technical University Munich, Germany

Monitoring and Optimization of Building Operations of a Low Energy School Building

Prof. Dr.-Ing. Roland Koenigsdorff

IGE - Institute for Building Services Engineering, Biberach University of Applied Science, Germany

The New House of the Region of Hannover - Building Energy Efficient in a Public Private Partnership

Thomas Schubert

VBD Consulting Group for Public Administration Berlin, Germany

Dipl.-Ing. Stefan Plesser

IGS - Institute of Building Services and Energy Design, Technical University Braunschweig Germany

Interdisciplinary Innovations and Visions for HVAC-Technology

Thomas Hecker

Product Manager, AL-KO Therm GmbH Jettingen-Scheppach, Germany

Commissioning of Building Automation and Control Systems - Initial and Continuous - Preview EN ISO 16484

Dipl.-Ing. Hans R. Kranz VDI

HAK Unternehmensberatung, Forst, Germany

European Union Energy Performance of Buildings Directive and the Impact of Building Automation on Energy Efficiency

Ulrich Wirth

Head of Market Support HVAC Products and BAC-Systems, Chairman of CEN/TC247 and Board Member of eu.bac, Siemens Building Automation Technologies, Zug, Switzerland

Saving Energy and Improving Comfort through Plant and Process Optimisation using Practical Examples - Thermasol Swimming Hall, University of Frankfurt, Hospital of Dessau

Dipl.-Ing. Christian Müller

Honeywell Building Solutions GmbH Offenbach, Germany

Plenary Session: Outlook - Building the Future

15:30 - 16:30

Sustainable, Intelligent, Archaeological – A Futurist’s Vision of Future Buildings

Dr. Karlheinz Steinmüller

Scientific Director Z_punkt GmbH The Foresight Company Berlin, Germany

Ideas and Concepts for a More Sustainable Approach in Building Design

Stefan Behnisch

Principal Partner Behnisch Architekten Stuttgart, Germany

ICEBO 2009

Prof. Dr. Dan Turner

Director Energy Systems Laboratory Texas A&M University, USA

Further Presentations and Poster Session

ICEBO'08 will have 5 additional sessions and a poster session presenting research and development on enhanced building operations world wide: Existing Building Commissioning - Case Studies, Building Component Optimization, Measured Performance of Buildings, New Building Commissioning - Tools and Policies, Building Rating Systems - Performance Validation. Please check the website for continuous program updates.

Guided Tour to Green Buildings in Berlin - Workshops Commissioning

Wednesday,
October 22

On Wednesday, October 22nd, the conference will offer a guided tour to architectural and technological building highlights of Berlin and additional workshops. Please check the website for further information and to register: <http://icebo.tamu.edu>

Registration via internet only
<http://icebo.tamu.edu>

Hotel rooms have been reserved for participants. Please find further information on the website. The conference languages are English and German. Presentations will be translated simultaneously. All information in this program is preliminary and changes are possible.

Hosted by

IGS - Institute of Building Services and Energy Design

Technical University Braunschweig
 Prof. Dr.-Ing. M. Norbert Fisch
 Dipl.-Ing. Stefan Plesser

**Ebert-Ingenieure/Ebert-Consulting Group
 Ebert & Baumann Consulting Engineers**

Prof. Dr.-Ing. Werner Jensch
 Dipl.-Ing. Oliver Baumann

Texas A&M University

Energy Systems Laboratory
 Prof. Dr. Dan Turner
 Prof. Dr. David Claridge
 Malcolm Verdict

Location

Conference Center of the Federal Ministry of Economics and Technology

Scharnhorststrasse 34-37
 Conference Entrance: Invalidenstrasse 48
 10115 Berlin

The Conference Center does not offer any parking facilities. Please use public transportation.

Arriving at Tegel Airport

Bus **109** or **X9** to Zoologischer Garten,
 Bus **128** to Kurt-Schuhmacher-Platz,
U6 to Zinnowitzer Strasse,
 approx. 5 minutes walk

Arriving by Train

Berlin central station, ca. 10 minutes walk

Arriving by Local Transportation

Bus: **120, 123, 147, 240, 245**
 Stop Invalidenpark,
 approx. 2 minutes walk
 Underground: **U6**
 Stop Zinnowitzer Strasse,
 approx. 5 minutes walk
 S-Bahn: **S3, S5, S7, S75**
 Berlin central station,
 approx. 10 minutes walk

For additional information please contact

Martina Schütz M.A.

Congress und Presse, Bonn
 phone: +49 228 34 74 98
 fax: +49 228 34 98 15
 e-mail: congressundpresse@t-online.de

Heike Schlappa

Ebert und Partner, Nuremberg
 phone: +49 911 95 22 184
 fax: +49 911 95 22 104
 e-mail: h.schlappa@eb-ing.com

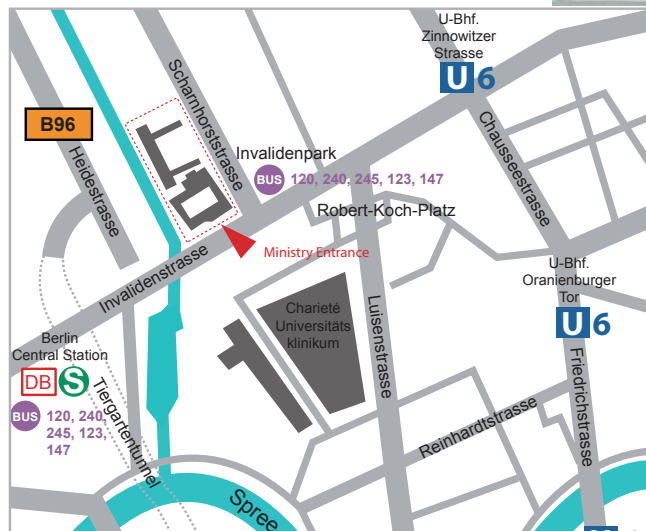
Lana Tolleson

Energy Systems Laboratory, Texas
 phone: +1 979 847 8950
 e-mail: lanatolleson@tees.tamu.edu

Attendance Fee

Two conference days, Oct. 20-21 '08	450 USD
One day, Oct. 20 '08	295 USD
One day, Oct. 21 '08	295 USD

Registration deadline is October 10, 2008.



EnBop stands for "Energetische Betriebsoptimierung" – in English "Optimizing Building Operations". EnBop is a new research area within the research activities funded by the German Ministry of Economics and Technology.



EnBop sets a frame for research projects such as case studies on operation in existing buildings and performance analysis of new systems and concepts. New methodologies and tools for enhanced building operations are being developed and tested. Special focus is on the cost-effectiveness and persistence of commissioning and optimization.

EnBop will be presented at ICEBO'08 in Berlin in cooperation with BINE information service. For more information please check www.enob.info.