

building performance

congress

12.-16. April 2010

Congress Centre Messe Frankfurt, Halle 9.0

Held parallel to Light+Building 2010, the Building Performance Congress is an abundant source of information and the ideal place to exchange opinions. In numerous forums during the congress, experts discuss all important aspects of integrated building-services technology. While the fair provides information about the latest products, the congress takes an in-depth look at related subjects.

From 12 to 16 April 2010, the Congress Centre Messe Frankfurt will be dominated by expert discussions on the subjects of lighting, energy advice and improving energy efficiency in commercial buildings (IEECB). Register before 19 March 2010 to obtain the early-booking discount and other interesting benefits!

The Building Performance Congress will be supplemented by three specialist forums covering the fields of building, real estate and computer systems in the building industry. Admission to the Building Forum, the ACS Forum and the Future Forum is included in the price of admission and registration is not necessary.

Take advantage of this opportunity to exchange opinions and ideas with experts and benefit from the successful combination of trade fair and congress.

Light Focus

12 -14 April 2010

Congress Centre Messe Frankfurt, Level 3, Rooms Illusion I + II

„Design + Technology – a partnership that can work“

Organisers

Messe Frankfurt in cooperation with the Professional Lighting Designers' Association (PLDA) on behalf of the Lighting Association of the German Association of the Electrical and Electronics Industry (*Zentralverband Elektrotechnik- und Elektronikindustrie e. V. – ZVEI*)

Monday, 12 April 2010 / “Daylight”

Chair: Dr. Martin Lupton, President of PLDA, London, Great Britain

- 10.00 *Welcoming speech*
Dr. Martin Lupton, PLDA, London, Great Britain
- 10.15 *Designing with Daylight*
James Carpenter, Carpenter Norris Consulting, New York, USA
- 11.00 *Utilizing daylight – Energy efficiency and spatial quality through innovative daylight solutions*
Andreas Danler, Bartenbach LichtLabor GmbH, Aldrans, Austria
- 11.30 *Daylight Architecture – the planning process: what is the lighting designer’s scope of work, what are the client’s expectations*
Dr. Helmut Köster, Köster Lichtplanung, Frankfurt am Main, Germany
- 12.00 *Daylight design for a healthy learning environments*
Prof. Dr. Barbara Matusiak, Norwegian University of Science and Technology, Trondheim, Norway
- 12.30 Lunch
- 13.15 *“In touch with James Carpenter” – your exclusive opportunity to meet James Carpenter*
Moderated discussion with the main speaker

Tuesday, 13 April 2010 / “Energy efficiency”

Chair: Dr. Martin Lupton, President of PLDA, London, Great Britain

- 10.00 *Welcoming speech*
Dr. Martin Lupton, PLDA, London, Great Britain
- 10.15 *Ecology – Design – Synergy*
Martin Haas, Behnisch, Behnisch & Partner, Stuttgart, Deutschland
- 11.00 *Masdar and other exciting stories*
Alexander Rieck, LAVA Architekten, Stuttgart, Germany
- 11.30 *Darkness*
Mark Major, Speirs & Major Associates, London, Great Britain
- 12.00 *Energy-efficient facade design*
Betram Vandreike, KSV Krüger Schubert Vandreike, Berlin, Germany

- 12.30 Lunch
- 13.15 *“In touch with Martin Haas”* – your exclusive opportunity to meet Martin Haas
Moderated discussion with the main speaker

Wednesday, 14 April 2010 / “Light + Health”

Chair: Dr. Martin Lupton, President of PLDA, London, Great Britain

- 10.00 *Welcoming speech*
Dr. Martin Lupton, PLDA, London, Great Britain
- 10.15 *From Photons to Human Health: Exploring the Power of Light*
Prof. Dr. George C. Brainard, Thomas Jefferson University, Philadelphia, USA
- 11.00 *The science and practice of Colour Psychology and Light*
Prof. Karl Albert Fischer, Austrian Institute for Light and Colour, Vienna, Austria
- 11.30 *Defining „human wants and needs“ when designing architectural spaces*
Yasmine Mahmoudieh, The Royal Studios, London, Great Britain
- 12.00 *Chronobiology: How light affects humans; how chronobiology affects design*
Prof. Till Roenneberg, Institut für Medizinische Psychologie an der Ludwig-Maximilians-Universität, Munich, Germany
- 12.30 Lunch
- 13.15 *“In touch with Prof. Dr. George C. Brainard”* – your exclusive opportunity to meet Prof. Dr. George C. Brainard
Moderated discussion with the main speaker

The participation fee for Light Focus includes:

- Admission to all public lectures of Light Focus on the day(s) booked
- In the case of registrations made up to and including 19 March 2010, including admission to the fair on the days booked. Your fair ticket entitles you to use local public-transport services operated by the RMV public-transport authority.
- Conference materials
- Official catalogue
- Midday snack

The Light Focus lectures will be translated simultaneously into German / English.

The lectures are recognised by the Hessian Chamber of Architects and Town Planners (*Architekten- und Stadtplanerkammer Hessen - AKH*) as training measures.

Energy Focus – 5th German Energy Consultants' Conference

14 April 2010

Congress Centre Messe Frankfurt, Level 3, Room Illusion III

Organiser

Messe Frankfurt in cooperation with ECONSULT

Sponsors:

German Chamber of Engineers (*Bundesingenieurkammer – BIngK*), Berlin

Hessian Chamber of Architects and Town Planners (*Architekten- und Stadtplanerkammer Hessen – AKH*), Wiesbaden

The German Energy Consultants' Day in 2010 is a forum for current issues that affect engineers and architects involved in advising on energy use and conservation.

In direct discussions between you and the law-makers and subsidy providers, current questions in energy consultancy and planning will be explored and concrete answers given. The interlinking of policy and practice will be spotlighted and the relevance and applicability to everyday work and practice established. In specific terms, the issues will revolve around national implementation of European directives that are relevant to energy consultants in the service and building sectors, as well as those involving the practical application of subsidies from the KfW Development Bank and the Federal Office of Economics and Export Control (BAFA).

In addition, you will find out more about ways in which optimal system solutions using renewable energies can be devised and how calculations for these can be made in practice. The session will end with a presentation from a legal point of view on how to make sure that your services comply legally with the German regulations and statutory requirements in terms of energy conservation (EnEV) and the use of renewable energies for heating (EEWärmeG). More than 150 participants are expected to attend the fifth German Energy Consultants' Day.

The notional sponsors of the German Energy Consultant's Day are the German Chamber of Engineers (*Bundesingenieurkammer – BIngK*) and the Chamber of Architects and Town Planners of the State of Hesse (*Architekten- und Stadtplanerkammer Hessen*).

The emphasis will be on practical relevance and direct applicability to everyday work and practice. The proximity to the Light+Building trade fair allows you to take a close and critical look at innovative new products for energy-efficient buildings and to compare them. The chairmanship of the day will be in the tried and trusted hands of Klaus Lambrecht / ECONSULT (www.solaroffice.de). Materials will be available for participants.

Wednesday, 14 April 2010

- 10.00 *Welcome and presentation of the programme*
Klaus Lambrecht, ECONSULT Lambrecht Jungmann Partner / Director of the German Energy Consultants' Day, Rottenburg, Germany
- Welcome speech*
Günther Volz, Consultant Engineer, Chair of the Energy Working Group of the Federal Chamber of Engineers, Ehningen, Germany
- 10.10 *The German government's energy and climate strategy as it affects buildings.*
Wolfgang Ornth, Head of the Energy and Climate Protection, Building and Transport Department, Federal Ministry for Transport, Construction and Urban Development (*BMVBS*), Berlin, Germany
- 10.50 *National implementation of the directive on energy services.*
Dr. Wolfgang Stinglwagner, Head of Division for Policy Matters for Rational Energy Use and Energy Efficiency, BMWi (*Federal Ministry of Economics and Technology*), Bonn

- 11.30 *Energy balance – Optimum system solution for renewable energies and energy efficiency*
Dr. Martin Pehnt, Scientific Director and Head of the Energy Department, IFEU, Heidelberg, Germany
- 12.10 Lunch break
- 13.00 *Assistance for energy efficient building and modernisation – results, status and outlook*
Markus Schönborn, Head of Department, KfW, Berlin, Germany
- 13.40 *On-site energy advice – evaluation, current status and outlook*
Wulf Bittner, Head of Department, Federal Office for Economics and Export Control (*Bundesamt für Wirtschaft und Ausfuhrkontrolle – BAFA*), Eschborn, Germany
- 14.20 *Professionalising energy consultancy services – chances through systematisation*
Nikolaus Möllenhoff, BGT – Department for Construction Management and Building Services Technology, RWTH Aachen
- 14.40 Coffee break
- 15.00 *Simulation tools used profitably for verification and planning in the field of renewable energies*
Dr. Andreas Witzig, CEO Velasolaris AG, Zurich, Switzerland
- 15.30 *Drawing up contracts for services in accordance with the Energy Saving Law (EnEV) and the Law on Heating with Renewable Energies (EEWärmeG)*
Karsten Meurer, Proprietor, Meurer Rechtsanwälte, Stuttgart, Germany
- 16.00 Close

The participation fee for Energy Focus includes:

- Admission to all public lectures of the German Energy Consultants' Conference
- In the case of registrations made up to and including 19 March 2010, including admission to the fair on the days booked. Your fair ticket entitles you to use local public-transport services operated by the RMV public-transport authority.
- Conference materials
- Official fair catalogue
- Midday snack

The lectures of Energy Focus – 5th German Energy Consultants' Conference will be held in German only.

The lectures are recognised by the Hessian Chamber of Architects and Town Planners (*Architekten- und Stadtplanerkammer Hessen - AKH*) as training measures.

IEECB Focus – Improving Energy Efficiency in Commercial Buildings Conference 2010

13 -14 April 2010

Congress Centre Messe Frankfurt, Level 3, Rooms Fantasie I + II

Organisers

Messe Frankfurt in cooperation with the European Commission, DG JRC, Ispra, Italy

Tuesday, 13 April 2010, Room Fantasie I

10.00 Policies and Programmes I

Chair: Tudor Constantinescu

Energy Efficiency in Buildings – The WBCSD's Call to Action
William Sisson, United Technologies Corporation

How the Recast EU Directive on the Energy Performance of Buildings will Transform the Buildings Market
Randall Bowie, Rockwool International A/S

Evaluation of the GreenLight Programme 2000-2008
Paolo Bertoldi, European Commission, DG JRC

Reducing Energy Consumption and Peak Demand in Commercial Buildings
Kenneth Tiedemann and Iris Sulyma, BC Hydro, Vancouver, Canada

Decarbonizing Hungarian tertiary buildings through improved energy efficiency: technological options, costs and the CO2 mitigation potential
Victoria Novikova, Central European University, Budapest, Hungary

12.00 Lunch

13.00 Policies and Programmes II

Chair: Christian Kornevall

The strategy towards low energy non-residential buildings in Upper Austria
Christine Öhlinger, Energiesparverband, Linz, Austria

Energy savings potential in the Hungarian public buildings for space heating
Katarina Korytarova, Central European University, Budapest, Hungary

EESI – European Energy Service Initiative
Susanne Berger, Berliner Energieagentur GmbH, Berlin, Germany

Building Portfolio Energy Analysis – Optimization procedure
Lynn Perry and Samir Chidiac, McMaster University, Hamilton ON, Canada

Legislative Framework of Building Sector Energy Efficiency in Turkey
Ebru Acuner, Istanbul Technical University, Istanbul, Turkey

15.00 Coffee break

15.30 **Barriers, Financing & Risk Analysis**

Chair: Catherine Cooremans

A Framework for Estimating and Communicating the Financial Performance of Energy Efficiency Improvements in Existing Commercial Buildings While Considering Risk and Uncertainty

Alireza Bozorgi, Virginia Polytechnic Institute and State University, Blacksburg, USA

Calculating life cycle costs in early design phase to encourage energy efficient and sustainable buildings

Gerhard Hofer, e7 Energie Markt Analyse GmbH, Vienna, Austria

Economic barriers to low-carbon office refurbishments

Giuseppe Pellegrini Masini, School of Built Environment Heriot-Watt University, Edingburg, United Kingdom

The importance and the impact of economic, organizational, cultural and social goals of companies and institutions for commercial buildings

Thorsten Speer, bene Consulting GmbH, Frankfurt, Germany

Façade Zone in relation to Energy, Indoor Environment and Cost in office buildings

Maria Kikira, Center for Renewable Energy Sources – C.R.E.S. Pikermi, Greece

How to overcome the socio-economic obstacles for efficient electrical energy use in smart buildings – and opportunities to save energy through efficient interoperability with the smart grid – demonstrated on the example of TAIPEI 101

Andreas Schierenbeck and Harace Lin, EUBAC

18.00 Close

Tuesday, 13 April 2010, Room Fantasie II

10.00 **HVAC I**

Chair: Ian Knight (tbc)

New Liquid Desiccant Cooling Systems for Buildings: Performance and Applications
Joan Carles Bruno, Universidad Rovira i Virgili, Tarragona, Spain

Quantifying the Energy Conservation Opportunities found in Air-Conditioning Inspections as required by EPBD Article 9

Ian Knight, Welsh School of Architecture, United Kingdom

Morphological implications of passive techniques in office buildings architecture

Luca Finocchiaro, NTNU, Trondheim, Norway

Post occupancy monitoring using an overlay sensing system in an advanced naturally ventilated building

Birgit Painter, Institute of Energy and Sustainable Development, De Montfort University, Leicester, United Kingdom

Hydronic Heating, Ventilation and Air Conditioning: Energy conscious building solutions for building occupant comfort

Tim Car Ashton, Carrier SCS Cedex, France

12.00 Lunch

13.00

HVAC II

Chair: Joan Carles Bruno

A Systematic Optimization and Operation of Central Chilling Systems for Energy Efficiency and Sustainability

Mr. Zhenjun Ma, The Hongkong Polytechnic University Kowloon, Hong Kong, China

Evaluation of energy savings related to building envelope retrofit techniques and ventilation strategies for low energy cooling in offices and commercial buildings
Lorenzo Pagliano, Politecnico di Milano, Milano, Italy

Maximizing Refrigeration Efficiency in New Commercial Buildings
Kenneth Tiedemann and Iris Sulyma, BC Hydro, Vancouver, Canada

Heat Pumping and Reversible Air Conditioning in Commercial Buildings
Jean Lebrun, JCJ Energetics – ATIC, Embourg, Belgium

Assessing the energy performance of HVAC systems in the tertiary building sector by onsite monitoring
Carlo Marco Masoero, Politecnico di Torino, Torino, Italy

15.00

Coffee break

15.30

Energy Efficiency in Building Equipment

Chair: Hans-Paul Siderius

Thermo-accumulation: an effective alternative for increasing the power load factor in electricity retailing leading to differentiated tariff billings.

Francisco Anizio Vieira, Pontifícia Universidade Católica do Rio de Janeiro, Rio de Janeiro, Brazil

Elevators and escalators: Energy performance and Barriers to promote energy efficiency

Elisabeth Duetschke and Simon Hirzel, Fraunhofer Institut for Systems and Innovation Research, Karlsruhe, Germany

Carlos Patrao, Dep. Electrical Engineering, Pólo II, Coimbra, Portugal

Ecodesign of refrigeration appliances

Shailendra Mudgal, BIO Intelligence Service, Paris, France

Standby and off-mode energy losses in office equipment

Carlos Patrao, Dep. Electrical Engineering, Pólo II, Coimbra, Portugal

Ecodesign of decentralised and air-based centralized heating products

Shailendra Mudgal, BIO Intelligence Service, Paris, France

Domestic Polygeneration Applications for Mild Climate

Sergio Sibilio, Seconda Università degli Studi di Napoli, Aversa, Italy

18.00

Close

Wednesday, 14 April 2010, Room Fantasie I

10.00 Success Examples & Retrofits

Chair: Randal Bowie

Energy Efficiency in Historic Buildings, the case study of the National Theatre of Rhodes, Greece and of the Zena Castle, Italy

Maria Kikira, Center for Renewable Energy Sources – C.R.E.S. Pikermi, Greece

Retrofit of an Office Building with Passive Cooling – REB Remscheid

Peter Engelmann, Bergische Universität Wuppertal, Wuppertal, Germany

What Really Makes Buildings Efficient: Results from the Low Energy High Rise Project

Chris Bloomfield, The Warren Center, University of Sydney, Sydney, Australia

Bringing all parties to the table: overcoming barriers to energy efficiency in the world's most famous building

Paul Rode, Johnson Controls North America, Milwaukee, USA

12.00 Lunch

13.00 Building Energy Rating & Commissioning

Chair: Stefan Plesser

Signs of Hope? Emerging trends in European Building Performance from an analysis of DISPLAY

Richard Bull, Institute of Energy and Sustainable Development, De Montfort University, Leicester, United Kingdom

The Future of Building Energy Rating and Disclosure Mandates: What Europe Can Learn From the United States

Andrew Burr, Institute for Market Transformation, Washington, USA

Mathematical model for predicting the energy consumption of government office buildings

Samir Chidiac, McMaster University, Hamilton ON, Canada

Persistence of benefits maintained over ten years of on-going commissioning at the CanmetENERGY Building using of a BEMS assisted commissioning tool

Daniel Choinière, CanmetENERGY of Varennes, Quebec, Canada

Development and application of ongoing commissioning techniques for non-residential buildings in German and European research programs

Nicolas Réhault, Fraunhofer Institut Solare Energiesysteme, Freiburg, Germany

15.00 Coffee break

15.30 Success Examples & Monitoring

Chair: Peter Garforth

Reducing energy costs in existing public buildings by up to 69% without compromising comfort is possible

Stephane le Gentil, Johnson Controls Europe, Belgium

How owner process knowledge improves the overall performance of commercial buildings – a case study

Andreas Leuchtenmueller, bene Consulting GmbH, Frankfurt, Germany

Technology forecast in Lighting regarding Energy Efficiency
Wilfried Pohl, Bartenbach LichtLabor GmbH, Innsbruck (Austria)

Image Processing for Overnight Lighting Quantification in Buildings
Neil Brown, Institute of Energy and Sustainable Development, De Montfort University,
Leicester, United Kingdom

Measurement and simulation of a commercial building in Norway
Matthias Haase, SINTEF Building and Infrastructure, Trondheim, Norway

Nachhaltig Massiv. Scientific fundamentals for the further development of solid building
Johannes Fechner, 17&4 Organisationsberatung GmbH, Wien, Austria

to be confirmed:
*Theoretical Comparison of Innovative Window Daylighting Devices for a sub-tropical
climate using Radiance*
Michael Hirning, Queensland University of Technology, Brisbane, Australia

to be confirmed:
*The energy and environmental impacts of housing construction – A case study from
India*
Sudhakara Reddy, Indira Gandhi Institute of Development Reserch, Mumbai, India

17.00 Close

Wednesday, 14 April 2010, Room Fantasie II

10.00 Building Energy Management Systems

Chair: George Benke

eDIANA: a new architectural approach for ICT-enabled energy efficient buildings
Rafael Claret Socorro Hernandez, ACCIONA Infraestructuras, Madrid, Spain

*Developing event-oriented meta-data for intelligent energy management from a
municipal building energy consumption database*
Graeme Stuart, Institute of Energy and Sustainable Development, De Montfort
University, Leicester, United Kingdom

Multi Agent building study on the control of the energy balance of an aquifer
Olaf van Pruissen, Energy Research Center of the Netherlands, Petten, Holland

*Energy Efficient Operation of Existing Buildings through Simulation Based Control
Optimisation*
Dirk Pietruschka, Center for Applied Research of Sustainable Energy Technology,
Stuttgart, Germany

HosPilot: Energy Efficiency Control in Hospitals
Manuel Ramiro Mauleon, ACCIONA Infraestructuras, Madrid, Spain

12.00 Lunch

13.00 **Monitoring Energy Consumption**

Chair: Paul Waide (tbc)

Survey and analysis of the energy consumption of a sample of office buildings and retail facilities

Martin Jakob, Centre for Energy Policy and Economics (CEPE), ETH Zurich, Switzerland

Energy Consumption of Non-Domestic buildings

Richard Kilpatrick, School of Built Environment Heriot-Watt University, Edingburg, United Kingdom

Regular survey on energy consumption in the tertiary sector in Germany

Barbara Schlomann, Fraunhofer Institut for Systems and Innovation Research, Karlsruhe, Germany

Analysis of the electricity end-use consumption and energy efficiency trends in the tertiary sector for the European Union

Paolo Bertoldi, European Commission, DG JRC

Electricity demand in the European service sector: A detailed bottom-up estimate by sector and by end-use

Tobias Fleiter, Fraunhofer Institut for Systems and Innovation Research, Karlsruhe, Germany

15.00 Coffee break

15.30 **European GreenBuilding Programme**

Chair: Dr. Paolo Bertoldi

Special Session on the European GreenBuilding Programme and GreenBuilding Award 2010

17.00 Close

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- Conference materials
- Official catalogue
- Midday snack, coffee break

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Building Forum

12 to 16 April 2010
Hall 9.0, VDMA Stand

Organisers

Messe Frankfurt in cooperation with VDMA Automation + Management for House and Building,
Frankfurt am Main

Monday, 12 April 2010

Chair: Frau Toole, Eubausa

- 10.00 *Opening*
- 10.30 *Energy Performance of Buildings Directive – Revised edition 2010 and its consequences for the EU member states*
Dr. Martin Elsberger, EU Commission, DG TREN
- 11.30 *The 2009 Energy Saving Law (ENEV) - status and expectations of the markets*
Peter Rathert, Federal Ministry for Transport, Construction and Urban Development
(*Bundesministerium für Verkehr, Bau und Stadtentwicklung – BMVBS*)
- 12.00 End

Chair: TBA, Federation of German Industries (*Bundesverband der Deutschen Industrie e. V. – BDI*)

- 12.30 *BDI Climate Protection Initiative – the climate-protection challenge – objectives and solution options*
Dr. Kurt-Christian Scheel, BDI
- 14.30 *BDI Panel Discussion*
- 16.00 End

Tuesday, 13 April 2010

Chair: Boris Schade-Bünsow, Publishing Manager, Bauverlag, Springer Baumedien

- 10.00 *An overview of building-services automation - coordinator in the building*
Christian Müller, Honeywell
- 10.30 *Room automation – an interdisciplinary event*
Hans Symanczik, Kieback & Peter
- 11.00 *Commissioning concepts and services after handing over*
Axel Schlarb, Siemens
- 11.30 *Energy-saving potential in existing buildings*
Patrick Neu, Sauter Cumulus
- 12.00 End

Chair: Dr. Manfred Stahl, cci Promotor Verlag

- 12.30 *Building-services automation and sustainability*
Karlheinz Belser, JCI
- 13.00 *Building certification in accordance with DGNB (German Sustainable Building Council)*
Dr. Christine Lemaitre, DGNB
- 14.00 *Green Building Frankfurt*
Wiebke Fiebig, Energy Department of the City of Frankfurt
- 15.30 *Tour of the KfW Green Building winner 2009*
- 17.30 End

Wednesday, 14 April 2010

Chair: TBA

- 10.00 *iHomelab – Research results and principles of application*
Prof. Alexander Klapproth, iHomelab
- 12.00 End

Chair: Dr. Peter Hug, VDMA

- 12.30 *Ambient Assisted Living – technology for the aged*
Dr. Hartmut Strese, VDI / VDE
- 14.00 *EnOcean – radio standards as a solution for existing buildings*
Graham Martin
- 16.00 End

Thursday, 15 April 2010 / “An overview of the VDE Guidelines”

Chair: Prof. Jürgen Tenhumberg, Fachhochschule Trier

- 10.00 *VDI 3812/1 Assistance functions for the home – determining the need for electrical installations and building-services automation*
Jörg Schulte, Busch-Jaeger Elektro GmbH
- 10.30 *VDI 3813/1 Room automation – basic principles*
Prof. Achim Heidemann
- 11.00 *VDI 3813/2 Standardisation of room-automation functions*
Jan Spelsberg
- 11.30 *VDI 3813/3 Room automation – examples of applications for different types of room and function macros*
Prof. Martin Becker
- 12.30 *VDI 3814/6+7 Building-services automation – graphic renditions of control tasks / designing user interfaces*
Prof. Manfred Büchel

13.00	<i>VDI 6010/2 Technical safety facilities – controlling automatic fire-protection devices</i> Jörg Balow, HOSCH GmbH
13.30	<i>VDI 6008/1 Barrier-free living space – the requirements on electrical technology</i> Günther Volz
14.00	<i>VDI 4705 – Aufzüge – Notrufmanagement</i> Thomas Lipphart, Kone GmbH
14.30	<i>Building networks – bacnet</i> Bill Swan
15.00	End

Friday, 16 April 2010

Chair: TBA

10.00	<i>Presentation of the AMG Promotional Award</i>
12.30	<i>Professors' Forum</i>

- Admission to the lectures of the Building Forum is included in the price of admission to Light+Building 2010.
- All lectures will be held in German only.
- Registration is not necessary.

ACS Forum

14 to 16 April 2010

Congress Centre Messe Frankfurt

Organisers

Messe Frankfurt in cooperation with the Hessian Chamber of Architects and Town Planners (*Architekten- und Stadtplanerkammer Hessen - AKH*), Wiesbaden, and with the collaboration of the Netzwerke raumwelten³, Rhein Neckar, the Central Association of the German Electrical and Information Technology Trades (*Zentralverband der Deutschen Elektro- und Informationstechnischen Handwerke – ZVEH*) und buildingSMART e. V.

Wednesday, 14 April 2010, 'Saal Harmonie' / 'Intelligent Office and Commercial Building'

Integrated and harmonised solutions for rooms in office and commercial buildings

Not only is the external appearance of an office or commercial building – i.e., its aesthetic qualities – decisive for how easy it is to find tenants for the building. The town-planning aspects, the location and local transport connections also play an important role.

Additionally, quality is also determined by the second perspective of the architecture – the view of the user from inside to outside. What kind of infrastructure does the knowledge worker of tomorrow and today need at his or her place of work? How flexible and easy may or should it be to modify buildings and rented space? How can the processes of room automation, meeting and conference organisation, communication technologies, telephone and video conferences, security and office processes be made available to employees on the basis of a single platform so as to increase and develop their physical and intellectual capabilities in the interests of the company? How can the resulting specification be used to ensure optimum energy and running costs?

We present solutions and tools with which architects can reduce interfaces in the room. We show how, with a basic infrastructure, all processes can be integrated in an enduring and flexible way with no migration, how this can help in connection with certification systems for sustainability, and how flexible space and modern work places can result in a high utilisation level and return for the property developer or investor.

An event in cooperation with Netzwerk raumwelten³.

Chair: Matthias Krämer, CEO, SchürmannSpannel AG

How can integrated and harmonised solutions for rooms in office and commercial buildings be achieved?

10.30

Introduction

The user's view from the inside to the outside:

- *Sustainability achieved pragmatically by architects and planners.*
- *Rooms in which knowledge workers can work highly productively.*

Richard Josef Weinmann, Spokesman of eco:factory, Dossenheim

10.40

What are the characteristics of a room where people feel comfortable?

- *Heating, ventilation, cooling and energy efficiency are not enough.*
- *Perspectives for the integration of floors, heating and cooling ceilings, walls and facades.*

Michael Hörner, Head of Heating and Cooling Technology, Linder AG, Arnstorf

- 11.00 *What is the influence of convergent, universal communication networks on the operation and on the life-cycle costs of buildings?*
 • *Data networks, electrical engineering, fire protection, security, process measuring and control technology*
 • *Preliminary planning agreed by all concerned has a positive potential for the ensuing costs.*
 Thilo Werner, Director Business Development, SPIE Deutschland, Karlsruhe
- 11.20 *Work places from the user's perspective*
 • *Communication with the building IT and corporate IT on the same basis*
 • *IP (Internet Protocol) – the technical catalyser for the building's nerve cords – IT, process measuring and control technology and electrical technology*
 Werner L. Schwind, General Manager, Raumcomputer GmbH, Karlsruhe
- 11.40 *How can architects and planners cut work-place costs through integrated planning?*
 • *Flexible sensor systems at the work place and the requirements of knowledge workings.*
 Mike Tendra, Sales Manager, Leuwico, Coburg Wiesenfeld
- 12.00 *Experten diskutieren: Wie können die Investitionskosten und die Folgekosten für ein Gebäude gesenkt werden?*
raumwelten³ konkret
 Richard Josef Weinmann, eco:factory
 Michael Hörner, Lindner AG
 Thilo Werner, SPIE Deutschland
 Werner Schwind, Raumcomputer
 Mike Tendra, Leuwico
- 12.30 Break

Chair: Matthias Krämer, CEO, SchürmannSpannel AG

How can sustainability be achieved through integrated and harmonised solutions?

- 13.30 *Introduction*
The perspective of the architect and planners from the outside to the inside
 • *Implementing sustainability pragmatically by architects and planners.*
 • *Buildings where knowledge workers can work highly productively*
 Richard Josef Weinmann, Spokesman of eco:factory, Dossenheim
- 13.45 *Why will the building be worth more?*
 • *Added value for a building comes from all-round sustainability – thermal comfort and user-friendliness are vital.*
 Dieter Leipoldt, Ebert-Ingenieure, Nuremberg
- 14.20 *Why IP networks for buildings and business processes?*
 • *The nerve cords of information, communication and building-services technology are growing together.*
 Uwe Northmann Cisco, Berlin
- 14.40 *What impact do data produced during the planning and building phases have on the facility management of buildings?*
 • *Complete evaluation system for efficiency, flexibility, adaptability, running costs – including energy costs – and sustainability from design to operation.*
 Kurt Weber, pitcup GmbH, Heidelberg

- 15.00 *The legal perspective*
 • *Legal aspects of integrated partnerships for architects and planners.*
 • *How can you ensure sustainable project quality?*
 Michael Arneburg, Lawyer for Building and Architecture, Kanzlei Arneburg Müller,
 Mannheim
- 15.30 *Experten diskutieren: Welche Auswirkungen hat gutes Design auf den Wert eines Gebäudes?*
 Dr. Martin Schaele, Berker Schalksmühle
 TBA, BOSCH, Stuttgart (FM)
 Thorsten Lichy, Architekt, Karlsruhe
 Richard Josef Weinmann, eco:factory, Dossenheim
 Michael Arneburg, Mannheim
 Dieter Leipoldt, Ebert-Ingenieure, Nuremberg
 Thomas Schmidt, SSP, Bochum
- 16.00 End

Thursday, 15 April 2010, Rooms Spektrum I + II / "Intelligent Dwellings"

Chair: Alexander Neuhäuser, ZVEH, Frankfurt am Main

Modern building-services technology – design and energy efficiency

Presentation of tried and tested, future-oriented solutions that offer energy savings, greater comfort and safety for building-services technology if account is taken of them in the planning phase.

- 10.00 *Welcome*
 Alexander Neuhäuser, lawyer, Central Association of the German Electrical and Information Technology Trades (*Zentralverband der Deutschen Elektro- und Informationstechnischen Handwerke – ZVEH*), Frankfurt am Main
 Lydia Suhrborg, Architect, Hessian Chamber of Architects and Town Planners (*Architekten- und Stadtplanerkammer Hessen - AKH*), Wiesbaden
- 10.15 *Intelligent Energy Systems of the Future - the "smart" house in a "smart" network*
 Dr.-Ing. Horst Gerlach, The Centre of Expertise for Electrical Energy of The German Commission for Electrical, Electronic & Information Technologies (*E-Energy Kompetenzzentrum Deutsche Kommission Elektrotechnik - DKE*)
- 11.00 *Legal requirements: how will the demands on building plant develop in the future?*
 Peter Rathert, Federal Ministry of Transport, Building and Urban Development, Berlin
- 11.45 *Energy efficiency and energy saving with automated building-services technology*
 Clemens August Brachtendorf, Architect, CA Brachtendorf GmbH & Co. KG, Düsseldorf
- 12.30 Lunch / lunch-package issue
- 13.00 *"More Light" – Architecture and Energy. With examples taken from the extension to the Städel Museum*
 Dipl.-Ing. Kai Otto, Architect, Managing Director, Schneider & Schumacher Architekturgesellschaft mbH, Frankfurt am Main
- 13.45 *Applications in Practice – the "E-House"*
 Wolfgang Schmitt, Chairman of the Steering Committee for Technology in the Central Association of the German Electrical and Information Technology Industry (*ZVEH*), Frankfurt am Main

- 14.15 *Transfer to the 'E-House' in Hall 8*
- 14.30 *Guided tour of the 'E-House' in Hall 8*
 Bernd Dechert et al, ZVEH, Frankfurt am Main

Friday, 16 April 2010, 'Saal Harmonie' / "Intelligente Planung"

Chair: Alexander Maier, Architekt, MSc., zeit + raum, architektur . Immobilien . facilities, Mainz-Budenheim

BIM – sustainability and value creation in the life cycle of buildings: a chance for architects

The benefits and use of BIM – Building Information Modelling* – will be shown over the life-cycle phases of development, planning, building, operating and recycling. This offers great opportunities for architects to consolidate their long-term position in a project or company and to generate follow-up orders.

On the basis of specific projects that have already been completed, the lectures will illustrate the possibilities and potential of BIM.

(*Building Information Modelling is a philosophy and methodology for creating innovative, sustainable and cost-efficient buildings and structures.)

An event in cooperation with buildingSMART e. V.

- 10.30 *Opening*
 Dr. Thomas Liebich
- 10.45 *Strategies with BIM: a view of the future*
 Dipl.-Ing. Siegfried Wernik, Architect, Léon Wohlhagen Wernik Architekten, Berlin
- 11.15 *Discussion*
- 11.30 - *Project development -*
BIM in project development illustrated by two projects, Bedburger Höfe and Mainz-Bretzenheim town centre
 Dipl.-Des. (FH) Harald Faerber, Architect, Interior architect, E. + F. Faerber, Büro für Architektur und Innenarchitektur, Mainz
- 12.00 *Discussion*
- 12.15 - *Planning -*
BIM in the planning phase illustrated by the new hospital project, Abu Dhabi
 Dipl.-Ing. Dieter Renth, Architect, Faust Consult GmbH, Architekten + Ingenieure, Wiesbaden
- 12.45 *Discussion*
- 13.00 *Pause*
- 14.00 -*Building-*
Using BIM in Construction Work: with examples drawn from the Lyonerstrasse high-rise block in Frankfurt
 Dipl.-Ing. Florian Kraft, Architect, Office Director, Stefan Forster Architect, Frankfurt am Main
- 14.30 *Discussion*

14.45 *-Operating and decommissioning / recycling-*
BIM for operating and decommissioning / recycling: with examples drawn from the
Stadthaus (Municipal Offices) in Giessen
Dipl.-Ing. Alexander Maier, Architect, M. Sc., zeit + raum, architektur . Immobilien .
facilities, Mainz-Budenheim

15.15 *Summary*

- Admission to the lectures of the ACS Forum is included in the price of admission to ACS / Light+Building 2010.
- All lectures will be held in German only.
- Registration is not necessary.

Future Forum: Real Estate 2.0 – A paradigm shift in the building sector

14 April 2010

Congress Centre Messe Frankfurt, Level 2, Rooms Spektrum I + II

Organisers

Messe Frankfurt in cooperation with the Association of Consulting Engineers (*Verband Beratender Ingenieur – VBI*), Berlin

Opinions about the current trend in the building sector – an exchange of opinions with experts

A paradigm shift is taking place in the building sector. Today, the focus in the building and real-estate business is on fair behaviour and the need to pay greater attention to the tenant (again).

Empty buildings are no longer an opportunity. They are simply empty buildings. All participants in the value chain from development, financing, construction and operation of a building must pull together with a strict orientation towards the customer, the property's later user or tenant.

Today, flexibility, quality and individuality in terms of the work performed are more important than ever before. A holistic approach is required. Service providers should be reliable, strategic partners who think in the long term and accept responsibility. Modern concepts must be realised, e.g., the general planning, construction management or general construction management, and supported with modern tools, e.g., Building Information Modelling.

The Real Estate Future Forum spotlights this subject and illuminates the paradigm shift in the building and property business. The resulting new demands on the players and best-practice solutions will be presented in expert lectures covering the fields of building financing, project development, consulting, building operation and the associated tools.

The congress will also provide a platform for tenants and users, and be an interesting forum for the exchange of opinions with experts from different sectors and fields.

Wednesday, 14 April 2010

Chair: Ulrike Silberberg, Bauverlag (Publishers), Gütersloh

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|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.00 | <i>Introduction</i>
Bertram Canzler, Canzler Ingenieure / Socotec International, Frankfurt |
| 10.15 | <i>Investing for the future, acting sustainably</i>
Dr. Bernd Schade, Head of Real Estate Project Management, Union Investment Real Estate GmbH, Hamburg |
| 11.00 | <i>Quality will out</i>
Dr. Markus Wiedenmann, Head of Acquisitions for Germany, Tishman Speyer, Frankfurt |
| 11.45 | <i>Buildings should serve their users</i>
Thomas Papperger, Head Corporate Logistic Facility & Infrastruktur Management, HypoVereinsbank / UniCredit Group, Munich |
| 12.30 | Break |
| 13.00 | <i>No good! No way! From contractor to sparring partner.</i>
Dr.-Ing. Lars Schöne, Managing Director Real Estate Management, Strabag Property and Facility Services GmbH, München |
| 13.45 | <i>You can't get a tailor-made suit off the peg.</i>
Dipl.-Ing. Peter Tzeschlock, Board of Management, Drees & Sommer AG, Stuttgart |

- 14.30 Break
- 14.45 *Future Construction*
Dipl.-Ing. Architekt Alexander Rieck, Director of LAVA Laboratory for Visionary
Architecture Europe, Stuttgart
- 15.30 *Résumé*
Ulrike Silberberg, Bauverlag (Publishers), Gütersloh
- 15.40 Get together

- Admission to the lectures of the Future Forum is included in the price of admission to Light+Building 2010.
- All lectures will be held in German only.
- Registration is not necessary.