

BIM: theory vs. practice

1. BLOCK OF LECTURES

9:15



Current Report on the State of Implementation of BIM in Slovakia

BIM is a concept that clearly resonates across the construction industry. The issue, however, is the fact that many still do not know what exactly this acronym actually stands for. Lack of exact definitions and specifications arising from this concept leads to impossibility to order these services and to verify their fulfillment eventually. Changes that implementation of BIM requires is even more difficult because it exceeds the imaginary space of the construction industry, but it stretches into society-wide issue.

Michal Pasiar
BIM ASSOCIATION SLOVAKIA

9:25



Benefits and Experience of Using BIM from a Perspective of the Investor

Building Information Modeling (BIM) is a new tool in the construction practice, which makes the process of preparation, planning, designing, construction and all the way to the finished building more effective. The presentation based on example of project Twin City in Bratislava is mainly focused not only on the benefits but also the potential risks of the use of BIM from perspective of investor and future operator of the building. We will share our own experience regarding the implementation of BIM to our daily routine.

Igor Ščerbák
HB REAVIS

9:50



Implementácie BIM v projekčných a stavebných firmách a nástroje na dosiahnutie rýchlej návratnosti investícií

Company ŠTOR CAD is a leader in the sale and implementation of BIM technology for architects for 12 years already. We managed with our customers the transition from classical 2D documentation to complex 3D models, which are now used as huge database of information. Today it is time when BIM technology can be used in the area for building Construction Management and later for Facility Management. CAD ŠTOR Company not only delivers these solutions, but has also become developer: ManageWay is our own system that helps to clarify, accelerate, optimize and evaluate processes in companies.

Ján Žilka, Milan Nemeč, Radoslav Vlkovič
ŠTOR CAD

10:15



BIM utilization in Design, Fabrication and Assembly of Building Constructions

Modern solution of building structures that use Building Information Modeling brings new opportunities not only in design but also to the production and assembly of building structures. Model is shared by all participants in the various phases of the project and serves as a source of related information. Data usage in the manufacturing and construction eliminates errors and brings time and cost savings and also better control of the project. Building Information Modeling becomes the new standard in processing of building structures.

Jitka Kochtová
CONSTRUSOFT

11:00



Practical Experience of Using Multiple BIM Software in the Design of Industrial Buildings (Volkswagen, Bratislava)

The presentation will focus on the practical experience of using multiple BIM - (building information modeling) software for the design of industrial buildings in the current modern construction sector with a demonstration of the project of the extension of VW Slovakia production capacities - a conveyor bridge H4a H6a that connects welding department with the main hall and ensure the transport of welded body.

Erik Hrnčiar
HESCON

11:25



BIM in Architectural and Engineering Office

We live in space, we build in space, make up your space for life. In the presentation, we offer an insight to the work in our architectural and engineering office and the experience that we gained in the implementation of BIM using Allplan, Nemetschek. We will also present the possibility of cooperation of all professions and handling of building model by ensuring the coordination of proposals, bills of quantities and budgeting.

Martin Uličný
TECHNICO OPAVA

11:50



Nástroje firmy Guardian pre informačné modely budov

As a leading supplier of glass for architecture Guardian offers a new generation of tools for design. In cooperation RIBA were prepared sets of information to work with building information modeling (BIM). The presentation provides a brief preview of these tools and their use.

Michal Hronský
GUARDIAN GLASS

2. BLOCK OF LECTURES

13:45



Status of Implementation and Standardization of BIM in the World

The potential integration of BIM to practice in Slovakia is proceeding a little harder because it does not gain adequate attention and still lacks support of state. The situation in the world is different and there are many standards that individual countries have implemented in order to support the use of BIM. The presentation reviews the current situation in Europe and also at worldwide level about the use and expansion of BIM with closer look to the legislation and standards in the sector.

Tomáš Funtík
BIM ASSOCIATION SLOVAKIA

14:00



Practical Experience with Building Information Modeling in Construction Industry

Efficient construction requires effective tools and improved processes. Technical Department responded to the challenge by 5D planning. This innovative way of work is based on a model integrating the work of all project participants across the individual phases and subsequent construction activities. 5D planning department developed tailored tools with software industry partners to meet the technology requirements and innovative practices. These tools already partly deployed in projects and their progress is continuously being updated. 5D has to be implemented step by step - and every step in itself is valuable.

Hrvoje Petrović
STRABAG

14:25



Isover Saint-Gobain's Multi-Comfort BIM - Object Library as Information Database for Architects and Planners

The situation regarding BIM in Europe is extremely heterogeneous. And this applies not only to BIM standards, but also the content of BIM. In terms of IT this is not nothing but a "white paper" within which any information can be attached. Therefore, the team members of Saint-Gobain Multi-Comfort decided to move forward on the issue of structural databases. Today there are more than 150 interactive and parametric BIM objects available in their native formats for ArchiCAD and Revit.

Matthias Uhl
ISOVER SAINT-GOBAIN

14:50



Requirements for Level 2 and Level 3 in the Context of the New Austrian BIM Standards

Austria is one of the few European countries where a BIM standard was developed and published. Since July 1st 2015 these BIM standards are mandatory for the Austrian building industry. The A 6241-1 is a BIM Level 2 standard focused on DXF data, knowing both blocks and attributes as containers for alphanumeric data. This standard is already supported by software products like Autodesk's Autocad and Revit and Graphisoft's ArchiCad. Core of the more advanced BIM Level 3 standard is a phase model based on a properties server which is implemented using IFC 4x1 and bSDD (buildingSMART Data Dictionary).

Peter Kompolschek
BIM ASSOCIATION AUSTRIA

15:30



NBS BIM Toolkit Application in the Public Procurement

Great Britain has set an ambitious target to use BIM on projects since 2016. One important step on the way is the project called Digital Plan of Work (DPOW), resulting in the NBS BIM Toolkit. Martin Černý as a member of the development team of BIM Academy (Northumbria University) participated in the development of this tool. As a leading expert in this field, he will present BIM Toolkit especially in relation to issues of public procurement and implementation of BIM at the state level.

Martin Černý
CZ BIM, BIM Academy UK

15:55



Building Information Modeling in the Field of Special Constructions

Rapid development of CAD / CAE technologies enable nowadays architects, designers, planners, etc. to increase the geometrical complexity of buildings in order to achieve new quality standards in other fields that are affected by a design itself; from simple aesthetics improvement to an enhancement in the energetic performance of a building or a reduction in its carbon footprint. Schueco is supporting effective BIM workflows by the use of new parametric models that are continuously being developed and adapted to correspond the state of the art.

Patric Günther
SCHUECO

16:20



Skúsenosti z využívania BIM vo Veľkej Británii na veľkých developerských projektoch

BBA have used ARCHICAD as an authoring tool since 1994 and began exchanging files with other design consultants from 2005 using the IFC. From 2011 the UK's plan to reach "BIM Level 2" by 2016 caused a greater interest in BIM. Knowing that ARCHICAD was right for our business, Bond Bryan began a journey to research and demonstrate that IFC could deliver the requirements of interested parties as well as the needs of clients/facilities managers. The presentation will look at this journey and show some of our research, practical application and commitment to developing a OPEN BIM and other emerging national and international standards.

Rob Jackson
BOND BRYAN ARCHITECTS / CAD EXPERT