

Sino-European Industrialized Building Platform initiated

Engineering Days China 2016

Engineering Days are typically providing a platform for discussions between precast producers and technology leaders in the industry. Very well established in Europe with their bi-annual event in Vienna, they were organized already twice also in Asia, and recently the first Engineering Days China took place in the Nikko Hotel, Beijing, as a joint initiative of several European and Chinese companies and associations. More than 500 participants, among them 150 CEOs of Chinese companies, attended the event.



The Engineering Days China offered a comprehensive conference program

After a Networking Reception on Nov 20, 2016 where attendees had the opportunity to get in touch with the conference speakers, the following day offered a comprehensive program that covered political, strategical and technical topics.

The conference program aimed at building a new communication platform to promote the exchange of academic and application technology between China and Europe in the field of building industrialization and to push forward a green and sustainable building industrialization system. During the conference, the „Beijing Declaration on green and sustainable development of building companies“ was issued.

Several speeches from leading Chinese companies, associations and academia set the scene by explaining the current situation in China, with a huge demand for housing, while at the same time realizing increasing challenges with regards to CO₂ reduction. China committed recently at COP21 to reduce the CO₂ footprint significantly, and modern solutions for precast building structures can help reaching the goals.

In this context, Christian Prillhofer from Prillhofer Consulting presented best practice examples from Europe. Efficient design, production and application of high quality precast buildings is feasible – provided that industrialized building procedures are successfully implemented.

Industrialized building concepts were discussed in detail then by several speakers. Willy Zhang, General Manager from Liebherr, China, presented the „Hybrid System“ as one option for sustainable precast buildings. Zhou Chong from Nemetschek explained the importance of the right software tools and Prof. Karsten Körkemeier, Technical University of Kaiserslautern, spoke about high-rise buildings with double walls – a very well established building system in many countries.

Earthquake resistancy of prefabricated buildings was an important topic during the conference, as well. Prof. Xue Wei Chen from Tongji University and Prof. Baris Binici from the Middle East Technical University presented research and practical experiences in this field and they argued that precast structures can indeed be built earthquake resistant.

Dr Christian Hanser from RIB SAA Software Engineering finally explained how a model based production flow in carousel plants works and what the advantages of such models are. ■

FURTHER INFORMATION

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中欧工业化建筑平台启动

2016 年中国举办“中欧建筑工业化论坛 (Engineering Days)”

Engineering Days (中国称之为“中欧建筑工业化论坛”) 专为预制生产商和建筑行业的技术领先企业提供一个互相交流、探讨的平台。中欧建筑工业化论坛每两年在欧洲维也纳举办一次, 并获得了巨大成功。该论坛现已在亚洲成功举办两次。近期, 中国首届中欧建筑工业化论坛在北京日航酒店隆重举办。此次论坛由中欧几家公司和协会联合发起, 与会人员超 500 人, 其中有 150 位中方公司的 CEO 参与此次活动。



在中欧建筑工业化论坛上, 中国提出一个全面的会议计划

2016 年 11 月 20 日的网络会议 (与会人员有机会与会议发言人取得联系) 落下帷幕之后, 中方隔天在论坛上就提出一个涵盖政治、战略和技术主题的综合计划。

该项会议计划旨在创建一个全新的交流平台, 以促进中欧在建筑工业化领域的学术和应用技术交流, 推动绿色可持续建筑产业化体系的发展。会议期间还发布了《建筑建材企业绿色可持续发展北京宣言》。

中方领先企业、协会和学术界在一些演讲中阐述了中国当前的情况。中国面临着巨大的住房需求, 同时在减少二氧化碳排放等方面面临越来越大的挑战。中国最近在第 21 届联合国气候变化大会 (COP21) 上力争大幅减少二氧化碳的排放量, 而预制建筑结构的现代化解决方案有助于实现中方目标。

基于中国的现状, 德国 Prilhofer 建筑工业化公司总裁 Christian Prilhofer 介绍了来自欧洲的最佳实践案例。只要工业化建筑程序顺利实行, 高效的设计、生产以及建造高质量预制建筑是完全可行的。

几位发言人详细探讨了工业化建筑概念。利勃海尔机械 (徐州) 有限公司总经理张伟宏先生称“混合系统”可作

为可持续预制建筑的一个选择。内梅切克软件工程 (上海) 有限公司的工程师周冲解释了运用合适的软件工具的重要性。凯撒斯劳滕工业大学的 Karsten Körkemeyer 教授发表了关于在高层建筑中运用双层墙技术的演讲。许多国家都建立起这样的建筑系统。

预制建筑物的抗震性也是会议期间的一项重要议题。同济大学的薛伟辰教授和土耳其中东技术大学 Baris Binici 教授介绍了该领域的研究和实践经验。他们认为预制结构的确可以达到抗震效果。

RIB SAA 软件工程公司的合伙人 Christian Hanser 博士在会议最后解释了生产模型如何在基于流水线的工厂中运用以及这些生产模型的优点。

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